

# Global RNA Sequencing Analysis Market Research Report 2026(Status and Outlook)

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## Abstracts

RNA sequencing (RNA-Seq) uses the capabilities of high-throughput sequencing methods to provide insight into the transcriptome of a cell. Compared to previous Sanger sequencing- and microarray-based methods, RNA-Seq provides far higher coverage and greater resolution of the dynamic nature of the transcriptome. Beyond quantifying gene expression, the data generated by RNA-Seq facilitate the discovery of novel transcripts, identification of alternatively spliced genes, and detection of allele-specific expression. Recent advances in the RNA-Seq workflow, from sample preparation to library construction to data analysis, have enabled researchers to further elucidate the functional complexity of the transcription. In addition to polyadenylated messenger RNA (mRNA) transcripts, RNA-Seq can be applied to investigate different populations of RNA, including total RNA, pre-mRNA, and noncoding RNA, such as microRNA and long ncRNA. A significant driver in the RNA sequencing analysis market is the expanding applications of RNA sequencing in genomics, transcriptomics, and personalized medicine. RNA sequencing provides valuable insights into gene expression, RNA isoforms, and non-coding RNAs, fueling research and clinical advancements. However, a notable challenge in this market is the complexity of data analysis and the need for robust bioinformatics tools. Interpreting vast RNA sequencing datasets accurately and efficiently remains a significant challenge for researchers and clinicians. Collaboration between technology developers and bioinformaticians, along with continuous innovation in data analysis methods, is essential to overcome this challenge and harness the full potential of RNA sequencing analysis for advancing our understanding of genetics and disease.

The global RNA Sequencing Analysis market size was estimated at USD 3394.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 17.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global RNA Sequencing Analysis market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global RNA Sequencing Analysis market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the RNA Sequencing Analysis market.

### **Global RNA Sequencing Analysis Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Illumina

Thermo Fisher Scientific  
Bio-Rad  
Roche  
Pacific Biosciences  
Agilent Technologies  
QIAGEN

### **Market Segmentation (by Type)**

Total RNA  
Pre-mRNA  
Noncoding RNA

### **Market Segmentation (by Application)**

Research Institutions  
Bioscience Companies  
Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the RNA Sequencing Analysis Market  
Overview of the regional outlook of the RNA Sequencing Analysis Market:

## Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the RNA Sequencing Analysis Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of RNA Sequencing Analysis, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five

forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

#### 1.1 Market Definition and Statistical Scope of RNA Sequencing Analysis

#### 1.2 Key Market Segments

##### 1.2.1 RNA Sequencing Analysis Segment by Type

##### 1.2.2 RNA Sequencing Analysis Segment by Application

#### 1.3 Methodology & Sources of Information

##### 1.3.1 Research Methodology

##### 1.3.2 Research Process

##### 1.3.3 Market Breakdown and Data Triangulation

##### 1.3.4 Base Year

##### 1.3.5 Report Assumptions & Caveats

### **2 RNA SEQUENCING ANALYSIS MARKET OVERVIEW**

#### 2.1 Global Market Overview

##### 2.1.1 Global RNA Sequencing Analysis Market Size (M USD) Estimates and Forecasts (2020-2035)

##### 2.1.2 Global RNA Sequencing Analysis Sales Estimates and Forecasts (2020-2035)

#### 2.2 Market Segment Executive Summary

#### 2.3 Global Market Size by Region

### **3 RNA SEQUENCING ANALYSIS MARKET COMPETITIVE LANDSCAPE**

#### 3.1 Company Assessment Quadrant

#### 3.2 Global RNA Sequencing Analysis Product Life Cycle

#### 3.3 Global RNA Sequencing Analysis Sales by Manufacturers (2020-2025)

#### 3.4 Global RNA Sequencing Analysis Revenue Market Share by Manufacturers (2020-2025)

#### 3.5 RNA Sequencing Analysis Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

#### 3.6 Global RNA Sequencing Analysis Average Price by Manufacturers (2020-2025)

#### 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

#### 3.8 RNA Sequencing Analysis Market Competitive Situation and Trends

##### 3.8.1 RNA Sequencing Analysis Market Concentration Rate

##### 3.8.2 Global 5 and 10 Largest RNA Sequencing Analysis Players Market Share by Revenue

### 3.8.3 Mergers & Acquisitions, Expansion

## **4 RNA SEQUENCING ANALYSIS INDUSTRY CHAIN ANALYSIS**

### 4.1 RNA Sequencing Analysis Industry Chain Analysis

### 4.2 Market Overview of Key Raw Materials

### 4.3 Midstream Market Analysis

### 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF RNA SEQUENCING ANALYSIS MARKET**

### 5.1 Key Development Trends

### 5.2 Driving Factors

### 5.3 Market Challenges

### 5.4 Industry News

#### 5.4.1 New Product Developments

#### 5.4.2 Mergers & Acquisitions

#### 5.4.3 Expansions

#### 5.4.4 Collaboration/Supply Contracts

### 5.5 PEST Analysis

#### 5.5.1 Industry Policies Analysis

#### 5.5.2 Economic Environment Analysis

#### 5.5.3 Social Environment Analysis

#### 5.5.4 Technological Environment Analysis

### 5.6 Global RNA Sequencing Analysis Market Porter's Five Forces Analysis

#### 5.6.1 Global Trade Frictions

#### 5.6.2 U.S. Tariff Policy ? April 2025

#### 5.6.3 Global Trade Frictions and Their Impacts to RNA Sequencing Analysis Market

### 5.7 ESG Ratings of Leading Companies

## **6 RNA SEQUENCING ANALYSIS MARKET SEGMENTATION BY TYPE**

### 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

### 6.2 Global RNA Sequencing Analysis Sales Market Share by Type (2020-2025)

### 6.3 Global RNA Sequencing Analysis Market Size by Type (2020-2025)

### 6.4 Global RNA Sequencing Analysis Price by Type (2020-2025)

## **7 RNA SEQUENCING ANALYSIS MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global RNA Sequencing Analysis Market Sales by Application (2020-2025)
- 7.3 Global RNA Sequencing Analysis Market Size (M USD) by Application (2020-2025)
- 7.4 Global RNA Sequencing Analysis Sales Growth Rate by Application (2020-2025)

## **8 RNA SEQUENCING ANALYSIS MARKET SALES BY REGION**

- 8.1 Global RNA Sequencing Analysis Sales by Region
  - 8.1.1 Global RNA Sequencing Analysis Sales by Region
  - 8.1.2 Global RNA Sequencing Analysis Sales Market Share by Region
- 8.2 Global RNA Sequencing Analysis Market Size by Region
  - 8.2.1 Global RNA Sequencing Analysis Market Size by Region
  - 8.2.2 Global RNA Sequencing Analysis Market Size by Region
- 8.3 North America
  - 8.3.1 North America RNA Sequencing Analysis Sales by Country
  - 8.3.2 North America RNA Sequencing Analysis Market Size by Country
  - 8.3.3 U.S. Market Overview
  - 8.3.4 Canada Market Overview
  - 8.3.5 Mexico Market Overview
- 8.4 Europe
  - 8.4.1 Europe RNA Sequencing Analysis Sales by Country
  - 8.4.2 Europe RNA Sequencing Analysis Market Size by Country
  - 8.4.3 Germany Market Overview
  - 8.4.4 France Market Overview
  - 8.4.5 U.K. Market Overview
  - 8.4.6 Italy Market Overview
  - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
  - 8.5.1 Asia Pacific RNA Sequencing Analysis Sales by Region
  - 8.5.2 Asia Pacific RNA Sequencing Analysis Market Size by Region
  - 8.5.3 China Market Overview
  - 8.5.4 Japan Market Overview
  - 8.5.5 South Korea Market Overview
  - 8.5.6 India Market Overview
  - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America RNA Sequencing Analysis Sales by Country
  - 8.6.2 South America RNA Sequencing Analysis Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa RNA Sequencing Analysis Sales by Region

8.7.2 Middle East and Africa RNA Sequencing Analysis Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

## **9 RNA SEQUENCING ANALYSIS MARKET PRODUCTION BY REGION**

9.1 Global Production of RNA Sequencing Analysis by Region(2020-2025)

9.2 Global RNA Sequencing Analysis Revenue Market Share by Region (2020-2025)

9.3 Global RNA Sequencing Analysis Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America RNA Sequencing Analysis Production

9.4.1 North America RNA Sequencing Analysis Production Growth Rate (2020-2025)

9.4.2 North America RNA Sequencing Analysis Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe RNA Sequencing Analysis Production

9.5.1 Europe RNA Sequencing Analysis Production Growth Rate (2020-2025)

9.5.2 Europe RNA Sequencing Analysis Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan RNA Sequencing Analysis Production (2020-2025)

9.6.1 Japan RNA Sequencing Analysis Production Growth Rate (2020-2025)

9.6.2 Japan RNA Sequencing Analysis Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China RNA Sequencing Analysis Production (2020-2025)

9.7.1 China RNA Sequencing Analysis Production Growth Rate (2020-2025)

9.7.2 China RNA Sequencing Analysis Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 Illumina

10.1.1 Illumina Basic Information

- 10.1.2 Illumina RNA Sequencing Analysis Product Overview
- 10.1.3 Illumina RNA Sequencing Analysis Product Market Performance
- 10.1.4 Illumina Business Overview
- 10.1.5 Illumina SWOT Analysis
- 10.1.6 Illumina Recent Developments
- 10.2 Thermo Fisher Scientific
  - 10.2.1 Thermo Fisher Scientific Basic Information
  - 10.2.2 Thermo Fisher Scientific RNA Sequencing Analysis Product Overview
  - 10.2.3 Thermo Fisher Scientific RNA Sequencing Analysis Product Market Performance
  - 10.2.4 Thermo Fisher Scientific Business Overview
  - 10.2.5 Thermo Fisher Scientific SWOT Analysis
  - 10.2.6 Thermo Fisher Scientific Recent Developments
- 10.3 Bio-Rad
  - 10.3.1 Bio-Rad Basic Information
  - 10.3.2 Bio-Rad RNA Sequencing Analysis Product Overview
  - 10.3.3 Bio-Rad RNA Sequencing Analysis Product Market Performance
  - 10.3.4 Bio-Rad Business Overview
  - 10.3.5 Bio-Rad SWOT Analysis
  - 10.3.6 Bio-Rad Recent Developments
- 10.4 Roche
  - 10.4.1 Roche Basic Information
  - 10.4.2 Roche RNA Sequencing Analysis Product Overview
  - 10.4.3 Roche RNA Sequencing Analysis Product Market Performance
  - 10.4.4 Roche Business Overview
  - 10.4.5 Roche Recent Developments
- 10.5 Pacific Biosciences
  - 10.5.1 Pacific Biosciences Basic Information
  - 10.5.2 Pacific Biosciences RNA Sequencing Analysis Product Overview
  - 10.5.3 Pacific Biosciences RNA Sequencing Analysis Product Market Performance
  - 10.5.4 Pacific Biosciences Business Overview
  - 10.5.5 Pacific Biosciences Recent Developments
- 10.6 Agilent Technologies
  - 10.6.1 Agilent Technologies Basic Information
  - 10.6.2 Agilent Technologies RNA Sequencing Analysis Product Overview
  - 10.6.3 Agilent Technologies RNA Sequencing Analysis Product Market Performance
  - 10.6.4 Agilent Technologies Business Overview
  - 10.6.5 Agilent Technologies Recent Developments
- 10.7 QIAGEN

- 10.7.1 QIAGEN Basic Information
- 10.7.2 QIAGEN RNA Sequencing Analysis Product Overview
- 10.7.3 QIAGEN RNA Sequencing Analysis Product Market Performance
- 10.7.4 QIAGEN Business Overview
- 10.7.5 QIAGEN Recent Developments

## **11 RNA SEQUENCING ANALYSIS MARKET FORECAST BY REGION**

- 11.1 Global RNA Sequencing Analysis Market Size Forecast
- 11.2 Global RNA Sequencing Analysis Market Forecast by Region
  - 11.2.1 North America Market Size Forecast by Country
  - 11.2.2 Europe RNA Sequencing Analysis Market Size Forecast by Country
  - 11.2.3 Asia Pacific RNA Sequencing Analysis Market Size Forecast by Region
  - 11.2.4 South America RNA Sequencing Analysis Market Size Forecast by Country
  - 11.2.5 Middle East and Africa Forecasted Sales of RNA Sequencing Analysis by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

- 12.1 Global RNA Sequencing Analysis Market Forecast by Type (2026-2035)
  - 12.1.1 Global Forecasted Sales of RNA Sequencing Analysis by Type (2026-2035)
  - 12.1.2 Global RNA Sequencing Analysis Market Size Forecast by Type (2026-2035)
  - 12.1.3 Global Forecasted Price of RNA Sequencing Analysis by Type (2026-2035)
- 12.2 Global RNA Sequencing Analysis Market Forecast by Application (2026-2035)
  - 12.2.1 Global RNA Sequencing Analysis Sales (K MT) Forecast by Application
  - 12.2.2 Global RNA Sequencing Analysis Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global RNA Sequencing Analysis Market Size by Type (M USD)

Table 4. Global RNA Sequencing Analysis Market Size by Application

Table 5. RNA Sequencing Analysis Market Size Comparison by Region (M USD)

Table 6. Global RNA Sequencing Analysis Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global RNA Sequencing Analysis Sales Market Share by Manufacturers (2020-2025)

Table 8. Global RNA Sequencing Analysis Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global RNA Sequencing Analysis Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in RNA Sequencing Analysis as of 2025)

Table 11. Global Market RNA Sequencing Analysis Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global RNA Sequencing Analysis Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. RNA Sequencing Analysis Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global RNA Sequencing Analysis Sales by Type (K MT)

Table 27. Global RNA Sequencing Analysis Market Size by Type (M USD)

Table 28. Global RNA Sequencing Analysis Sales (K MT) by Type (2020-2025)

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| Table 29. Global RNA Sequencing Analysis Sales Market Share by Type (2020-2025)                      |
| Table 30. Global RNA Sequencing Analysis Market Size (M USD) by Type (2020-2025)                     |
| Table 31. Global RNA Sequencing Analysis Market Share by Type (2020-2025)                            |
| Table 32. Global RNA Sequencing Analysis Price (USD/KG) by Type (2020-2025)                          |
| Table 33. Global RNA Sequencing Analysis Sales (K MT) by Application                                 |
| Table 34. Global RNA Sequencing Analysis Market Size by Application                                  |
| Table 35. Global RNA Sequencing Analysis Sales by Application (2020-2025) & (K MT)                   |
| Table 36. Global RNA Sequencing Analysis Sales Market Share by Application (2020-2025)               |
| Table 37. Global RNA Sequencing Analysis Market Size by Application (2020-2025) & (M USD)            |
| Table 38. Global RNA Sequencing Analysis Market Share by Application (2020-2025)                     |
| Table 39. Global RNA Sequencing Analysis Sales Growth Rate by Application (2020-2025)                |
| Table 40. Global RNA Sequencing Analysis Sales by Region (2020-2025) & (K MT)                        |
| Table 41. Global RNA Sequencing Analysis Sales Market Share by Region (2020-2025)                    |
| Table 42. Global RNA Sequencing Analysis Market Size by Region (2020-2025) & (M USD)                 |
| Table 43. Global RNA Sequencing Analysis Market Size by Region (2020-2025)                           |
| Table 44. North America RNA Sequencing Analysis Sales by Country (2020-2025) & (K MT)                |
| Table 45. North America RNA Sequencing Analysis Market Size by Country (2020-2025) & (M USD)         |
| Table 46. Europe RNA Sequencing Analysis Sales by Country (2020-2025) & (K MT)                       |
| Table 47. Europe RNA Sequencing Analysis Market Size by Country (2020-2025) & (M USD)                |
| Table 48. Asia Pacific RNA Sequencing Analysis Sales by Region (2020-2025) & (K MT)                  |
| Table 49. Asia Pacific RNA Sequencing Analysis Market Size by Region (2020-2025) & (M USD)           |
| Table 50. South America RNA Sequencing Analysis Sales by Country (2020-2025) & (K MT)                |
| Table 51. South America RNA Sequencing Analysis Market Size by Country (2020-2025) & (M USD)         |
| Table 52. Middle East and Africa RNA Sequencing Analysis Sales by Region (2020-2025) & (K MT)        |
| Table 53. Middle East and Africa RNA Sequencing Analysis Market Size by Region (2020-2025) & (M USD) |
| Table 54. Global RNA Sequencing Analysis Production (K MT) by Region(2020-2025)                      |

Table 55. Global RNA Sequencing Analysis Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global RNA Sequencing Analysis Revenue Market Share by Region (2020-2025)

Table 57. Global RNA Sequencing Analysis Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America RNA Sequencing Analysis Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe RNA Sequencing Analysis Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan RNA Sequencing Analysis Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China RNA Sequencing Analysis Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Illumina Basic Information

Table 63. Illumina RNA Sequencing Analysis Product Overview

Table 64. Illumina RNA Sequencing Analysis Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Illumina Business Overview

Table 66. Illumina SWOT Analysis

Table 67. Illumina Recent Developments

Table 68. Thermo Fisher Scientific Basic Information

Table 69. Thermo Fisher Scientific RNA Sequencing Analysis Product Overview

Table 70. Thermo Fisher Scientific RNA Sequencing Analysis Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Thermo Fisher Scientific Business Overview

Table 72. Thermo Fisher Scientific SWOT Analysis

Table 73. Thermo Fisher Scientific Recent Developments

Table 74. Bio-Rad Basic Information

Table 75. Bio-Rad RNA Sequencing Analysis Product Overview

Table 76. Bio-Rad RNA Sequencing Analysis Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Bio-Rad Business Overview

Table 78. Bio-Rad SWOT Analysis

Table 79. Bio-Rad Recent Developments

Table 80. Roche Basic Information

Table 81. Roche RNA Sequencing Analysis Product Overview

Table 82. Roche RNA Sequencing Analysis Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Roche Business Overview

Table 84. Roche Recent Developments

Table 85. Pacific Biosciences Basic Information

Table 86. Pacific Biosciences RNA Sequencing Analysis Product Overview

Table 87. Pacific Biosciences RNA Sequencing Analysis Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Pacific Biosciences Business Overview

Table 89. Pacific Biosciences Recent Developments

Table 90. Agilent Technologies Basic Information

Table 91. Agilent Technologies RNA Sequencing Analysis Product Overview

Table 92. Agilent Technologies RNA Sequencing Analysis Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 93. Agilent Technologies Business Overview

Table 94. Agilent Technologies Recent Developments

Table 95. QIAGEN Basic Information

Table 96. QIAGEN RNA Sequencing Analysis Product Overview

Table 97. QIAGEN RNA Sequencing Analysis Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 98. QIAGEN Business Overview

Table 99. QIAGEN Recent Developments

Table 100. Global RNA Sequencing Analysis Sales Forecast by Region (2026-2035) & (K MT)

Table 101. Global RNA Sequencing Analysis Market Size Forecast by Region (2026-2035) & (M USD)

Table 102. North America RNA Sequencing Analysis Sales Forecast by Country (2026-2035) & (K MT)

Table 103. North America RNA Sequencing Analysis Market Size Forecast by Country (2026-2035) & (M USD)

Table 104. Europe RNA Sequencing Analysis Sales Forecast by Country (2026-2035) & (K MT)

Table 105. Europe RNA Sequencing Analysis Market Size Forecast by Country (2026-2035) & (M USD)

Table 106. Asia Pacific RNA Sequencing Analysis Sales Forecast by Region (2026-2035) & (K MT)

Table 107. Asia Pacific RNA Sequencing Analysis Market Size Forecast by Region (2026-2035) & (M USD)

Table 108. South America RNA Sequencing Analysis Sales Forecast by Country (2026-2035) & (K MT)

Table 109. South America RNA Sequencing Analysis Market Size Forecast by Country

(2026-2035) & (M USD)

Table 110. Middle East and Africa RNA Sequencing Analysis Sales Forecast by Country (2026-2035) & (Units)

Table 111. Middle East and Africa RNA Sequencing Analysis Market Size Forecast by Country (2026-2035) & (M USD)

Table 112. Global RNA Sequencing Analysis Sales Forecast by Type (2026-2035) & (K MT)

Table 113. Global RNA Sequencing Analysis Market Size Forecast by Type (2026-2035) & (M USD)

Table 114. Global RNA Sequencing Analysis Price Forecast by Type (2026-2035) & (USD/KG)

Table 115. Global RNA Sequencing Analysis Sales (K MT) Forecast by Application (2026-2035)

Table 116. Global RNA Sequencing Analysis Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of RNA Sequencing Analysis
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global RNA Sequencing Analysis Market Size (M USD), 2025-2035
- Figure 5. Global RNA Sequencing Analysis Market Size (M USD) (2020-2035)
- Figure 6. Global RNA Sequencing Analysis Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. RNA Sequencing Analysis Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global RNA Sequencing Analysis Product Life Cycle
- Figure 13. RNA Sequencing Analysis Sales Share by Manufacturers in 2025
- Figure 14. Global RNA Sequencing Analysis Revenue Share by Manufacturers in 2025
- Figure 15. RNA Sequencing Analysis Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market RNA Sequencing Analysis Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by RNA Sequencing Analysis Revenue in 2025
- Figure 18. Industry Chain Map of RNA Sequencing Analysis
- Figure 19. Global RNA Sequencing Analysis Market PEST Analysis
- Figure 20. Global RNA Sequencing Analysis Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global RNA Sequencing Analysis Market Share by Type
- Figure 27. Sales Market Share of RNA Sequencing Analysis by Type (2020-2025)
- Figure 28. Sales Market Share of RNA Sequencing Analysis by Type in 2025
- Figure 29. Market Share of RNA Sequencing Analysis by Type (2020-2025)
- Figure 30. Market Share of RNA Sequencing Analysis by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global RNA Sequencing Analysis Market Share by Application

Figure 33. Global RNA Sequencing Analysis Sales Market Share by Application (2020-2025)

Figure 34. Global RNA Sequencing Analysis Sales Market Share by Application in 2025

Figure 35. Global RNA Sequencing Analysis Market Share by Application (2020-2025)

Figure 36. Global RNA Sequencing Analysis Market Share by Application in 2025

Figure 37. Global RNA Sequencing Analysis Sales Growth Rate by Application (2020-2025)

Figure 38. Global RNA Sequencing Analysis Sales Market Share by Region (2020-2025)

Figure 39. Global RNA Sequencing Analysis Market Size by Region (2020-2025)

Figure 40. North America RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America RNA Sequencing Analysis Sales Market Share by Country in 2024

Figure 43. North America RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America RNA Sequencing Analysis Market Size by Country in 2024

Figure 45. U.S. RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada RNA Sequencing Analysis Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada RNA Sequencing Analysis Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico RNA Sequencing Analysis Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico RNA Sequencing Analysis Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe RNA Sequencing Analysis Sales Market Share by Country in 2024

Figure 53. Europe RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe RNA Sequencing Analysis Market Size by Country in 2024

Figure 55. Germany RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific RNA Sequencing Analysis Sales and Growth Rate (K MT)

Figure 66. Asia Pacific RNA Sequencing Analysis Sales Market Share by Region in 2024

Figure 67. Asia Pacific RNA Sequencing Analysis Market Size by Region in 2024

Figure 68. China RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia RNA Sequencing Analysis Sales and Growth Rate

(2020-2025) & (K MT)

Figure 77. Southeast Asia RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America RNA Sequencing Analysis Sales and Growth Rate (K MT)

Figure 79. South America RNA Sequencing Analysis Sales Market Share by Country in 2024

Figure 80. South America RNA Sequencing Analysis Market Size and Growth Rate (M USD)

Figure 81. South America RNA Sequencing Analysis Market Size by Country in 2024

Figure 82. Brazil RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa RNA Sequencing Analysis Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa RNA Sequencing Analysis Sales Market Share by Region in 2024

Figure 90. Middle East and Africa RNA Sequencing Analysis Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa RNA Sequencing Analysis Market Size by Region in 2024

Figure 92. Saudi Arabia RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa RNA Sequencing Analysis Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa RNA Sequencing Analysis Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global RNA Sequencing Analysis Production Market Share by Region (2020-2025)

Figure 103. North America RNA Sequencing Analysis Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe RNA Sequencing Analysis Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan RNA Sequencing Analysis Production (K MT) Growth Rate (2020-2025)

Figure 106. China RNA Sequencing Analysis Production (K MT) Growth Rate (2020-2025)

Figure 107. Global RNA Sequencing Analysis Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global RNA Sequencing Analysis Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global RNA Sequencing Analysis Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global RNA Sequencing Analysis Market Share Forecast by Type (2026-2035)

Figure 111. Global RNA Sequencing Analysis Sales Forecast by Application (2026-2035)

Figure 112. Global RNA Sequencing Analysis Market Share Forecast by Application (2026-2035)

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