

# **RNA Analysis Market Size, Share & Trends Analysis Report By Product (Kits & Reagents, Services, Instruments), By Technology (qPCR, Sequencing), By End Use (CROs, Hospitals & Clinics), By Application, And Segment Forecasts, 2022 - 2030**

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## **Abstracts**

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### **RNA Analysis Market Growth & Trends**

The global RNA analysis market size is anticipated to reach USD 42.30 billion by 2030, expanding at a CAGR of 16.59% from 2022 to 2030, according to a new report by Grand View Research, Inc. Transcriptomics is one of the most advanced fields in the post-genomic period. Technological advancements in this industry can be attributed to the increasing applications of transcriptome sequencing in life science for capturing polyadenylated RNA. With the expansion of next-generation high-throughput sequencing technology, the analysis of transcriptomes has been gradually improving the understanding of the regulatory network of RNA-based genes. For instance, in July 2021, the Lithuanian team is developing a droplet-based technique for simultaneous mRNA and microRNA capture and sequencing in a single cell.

The research is backed by the European Union with a USD174,000 Horizon 2020 research grant. Moreover, in May 2022, CD Genomics launched the Digital RNA sequencing technology, which is an NGS-based method that excludes sequence-dependent PCR. Such initiatives are anticipated to accelerate market growth shortly. Ribonucleic acid transcriptome analysis enables the researchers to analyze the position of genes as well as the functional patterns of a specific gene in an organism. The method assists in evaluating every transcript's changing behavior at the

development stage and assesses all the elements of a transcript, including messenger ribonucleic acid, non-coding ribonucleic acid, and micro ribonucleic acid, for identifying the transcriptional structure of genes.

The growing need for analyzing a huge number of genes to understand the gene-to-drug interactions is anticipated to enhance the application of transcriptomics technologies in discovery applications and drug development. For instance, transcriptome profiles of COVID-19 patients have been analyzed to examine the disease prognosis and management. Furthermore, increasing demand for personalized medicines is anticipated to fuel the industry growth during the forecast period. In April 2020, Caris Life Sciences announced the submission of Pre-Market Approval applications for MI Transcriptome CDx to the USFDA. It is a powerful precision medicine assay, which contains significant companion diagnostic biomarkers. On the other hand, data management in transcriptomic research and the lack of effective bioinformatics tools are some of the major challenges in the industry.

The evolution of high-throughput technologies has provided invaluable opportunities for generating holistic views of complex biological processes. Despite the considerable availability of omics data, the conversation of biological data into clinically valuable knowledge remains one of the major challenges. It is not only because of insufficient current data processing or integration methods but also for inappropriate application of existing analysis approaches. North America has been reported as the highest revenue-generating region in 2021 owing to increasing investments in pharmaceutical and biotechnology research by corporations. Asia Pacific is projected to register the fastest CAGR from 2022 to 2030 owing to the low-cost manufacturing services.

## RNA Analysis Market Report Highlights

Real-Time- PCR (qPCR) accounted for the major market share in the technology segment in 2021 and is said to continue the trend during the forecast period owing to the increasing use of PCR for COVID-19 diagnostic across the globe

The transcriptome sequencing technology is estimated to register a significant CAGR during the forecast period owing to factors, such as advancements in sequencing technology and growing acceptance of NGS technology

The kits and reagents segment accounted for the highest revenue share in 2021 owing to a high utilization rate of consumables during transcriptomic studies

The infectious diseases and pathogenesis segment accounted for the largest share in 2021 and is anticipated to have a similar trend during the forecasted period

The increasing prevalence of the infectious disease is the major factor driving the segment growth

Government institutes & academic centers dominated the end-user segment as the increasing number of institutes and centers leveraged high throughput technologies for the effective and efficient process of ribonucleic acid analysis

## Contents

### CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Methodology
- 1.2 Research Assumptions
  - 1.2.1 Estimates and Forecast Timeline
- 1.3 Research Methodology
- 1.4 Information Procurement
  - 1.4.1 Purchased Database
  - 1.4.2 Gvr's Internal Database
  - 1.4.3 Secondary Sources
  - 1.4.4 Primary Research
  - 1.4.5 Details Of Primary Research
- 1.5 Information Or Data Analysis
  - 1.5.1 Data Analysis Models
- 1.6 Market Formulation & Validation
- 1.7 Model Details
  - 1.7.1 Commodity Flow Analysis
    - 1.7.1.1 Approach 1: Commodity Flow Approach
    - 1.7.1.2 Approach 2: Country Wise Market Estimation Using Bottom Up Approach
- 1.8 Global Market: CAGR Calculation
- 1.9 List of Secondary Sources
- 1.10 List of Primary Sources
- 1.11 Objectives
  - 1.11.1 Objective
  - 1.11.2 Objective

### CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Summary

### CHAPTER 3 MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Market Segmentation
- 3.2 RNA Analysis Market Lineage Outlook
  - 3.2.1 Parent Market Outlook
- 3.3 Penetration And Growth Prospect Mapping
- 3.4 Market Dynamics

- 3.4.1 Market Driver Analysis
  - 3.4.1.1 Transcriptomics In Cancer Personalized/Precision Medicine
  - 3.4.1.2 Rising Diagnostic Utility Of Transcriptomics Technologies
  - 3.4.1.3 Advent Of Novel Approaches For Understanding Gene Expression At Rna Level
- 3.4.2 Market Restraint Analysis
  - 3.4.2.1 Higher Cost Of Research And Developments
  - 3.4.2.2 High Cost Associated With Platforms
- 3.4.3 Market Opportunity Analysis
  - 3.4.3.1 Single Cell Transcriptomics And Associated Big Data
  - 3.4.3.2 Advances In Sequencing Technologies
- 3.4.4 Market Challenge Analysis
  - 3.4.4.1 Data Management In Transcriptomics Research
  - 3.4.4.2 Lack Of Effective Bioinformatics Tools
- 3.5 Business Environment Analysis
  - 3.5.1 SWOT Analysis; By factor (Political & Legal, Economic and Technological)
  - 3.5.2 Porter's Five Forces Analysis
- 3.6 Competitive Analysis
  - 3.6.1 Recent Developments & Impact Analysis, By Key Market Participants
    - 3.6.1.1 Strategy Framework
    - 3.6.1.2 Market Participant Categorization
    - 3.6.1.3 Major Deals & Strategic Alliances Analysis
      - 3.6.1.3.1 Mergers And Acquisitions
      - 3.6.1.3.2 Partnerships
      - 3.6.1.3.3 Agreements
      - 3.6.1.3.4 Synergies, Collaborations, And Other Initiatives
  - 3.6.2 Market Entry Strategies

## **CHAPTER 4 PRODUCTS BUSINESS ANALYSIS**

- 4.1 RNA Analysis Market: Products Movement Analysis
- 4.2 Instruments
  - 4.2.1 Instruments market estimates and forecast, 2018 - 2030 (USD Million)
- 4.3 Kits and Reagents
  - 4.3.1 Kits and Reagents market estimates and forecast, 2018 - 2030 (USD Million)
    - 4.3.1.1 miRNA & siRNA
      - 4.3.1.1.1 miRNA & SiRNA market estimates and forecast, 2018 - 2030 (USD Million)
    - 4.3.1.2 Reverse Transcriptases & RT-PCR
      - 4.3.1.2.1 Reverse Transcriptase & RT-PCR market estimates and forecast, 2018 -

2030 (USD Million)

4.3.1.3 RNA Extraction & Purification

4.3.1.3.1 RNA extraction & purification market estimates and forecast, 2018 - 2030

(USD Million)

4.3.1.4 RNA Interference

4.3.1.4.1 RNA interference market estimates and forecast, 2018 - 2030 (USD Million)

4.3.1.5 Others

4.3.1.5.1 Others market estimates and forecast, 2018 - 2030 (USD Million)

4.4 Services

4.4.1. Services market estimates and forecast, 2018 - 2030 (USD Million)

## **CHAPTER 5 TECHNOLOGY BUSINESS ANALYSIS**

5.1 RNA Analysis Market: Technology Movement Analysis

5.2 Real Time-PCR (qPCR)

5.2.1 Real Time-PCR (qPCR) market estimates and forecast, 2018 - 2030 (USD Million)

5.3 Microarray

5.3.1 Microarray market estimates and forecast, 2018 - 2030 (USD Million)

5.4 Sequencing

5.4.1 Sequencing market estimates and forecast, 2018 - 2030 (USD Million)

5.5 Others

5.5.1 Others market estimates and forecast, 2018 - 2030 (USD Million)

## **CHAPTER 6 APPLICATION BUSINESS ANALYSIS**

6.1 RNA Analysis Market: Application Movement Analysis

6.2 Construction of RNA Expression Atlas

6.2.1 Construction of RNA expression atlas market estimates and forecast, 2018 - 2030 (USD Million)

6.3 Epigenetics

6.3.1 Epigenetics market estimates and forecast, 2018 - 2030 (USD Million)

6.4 Infectious Diseases & Pathogenesis

6.4.1 Infectious diseases and pathogenesis market estimates and forecast, 2018 - 2030 (USD Million)

6.5 Alternative RNA Splicing

6.5.1 Alternative RNA splicing market estimates and forecast, 2018 - 2030 (USD Million)

## 6.6 RNA Structure & Molecular Dynamics

6.6.1 RNA structure and molecular dynamics market estimates and forecast, 2018 - 2030 (USD Million)

## 6.7 Development & Delivery of RNA Therapeutics

6.7.1 Development and delivery of RNA therapeutics market estimates and forecast, 2018 - 2030 (USD Million)

## 6.8 Others

6.8.1 Others market estimates and forecast, 2018 - 2030 (USD Million)

# CHAPTER 7 END USE BUSINESS ANALYSIS

## 7.1 RNA Analysis Market: End Use Movement Analysis

### 7.2 Government Institutes & Academic Centers

7.2.1 Government Institutes & Academic Centers estimates and forecast, 2018 - 2030 (USD Million)

### 7.3 Pharmaceutical & Biotechnology Companies

7.3.1 Pharmaceutical & Biotechnology Companies estimates and forecast, 2018 - 2030 (USD Million)

### 7.4 Hospitals & Clinics

7.4.1 Hospitals & Clinics estimates and forecast, 2018 - 2030 (USD Million)

### 7.5 Contract research Organizations (CROs)

7.5.1 Contract research Organizations (CROs) estimates and forecast, 2018 - 2030 (USD Million)

# CHAPTER 8 REGIONAL BUSINESS ANALYSIS

## 8.1 RNA Analysis Market: Regional Movement Analysis

### 8.2 North America

8.2.1 North America Market Estimates And Forecast, 2018 - 2030 (USD Million)

#### 8.2.2 U.S.

8.2.2.1 U.S. market estimates and forecast, 2018 - 2030 (USD Million)

8.2.2.2 U.S. RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.2.2.3 U.S. RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.2.2.4 U.S. RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.2.2.5 U.S. RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.2.3 Canada

8.2.3.1 Canada market estimates and forecast, 2018 - 2030 (USD Million)

8.2.3.2 Canada RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.2.3.3 Canada RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)



8.2.3.4 Canada RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.2.3.5 Canada RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

### 8.3 Europe

8.3.1 Europe Market Estimates And Forecast, 2018 - 2030 (USD Million)

#### 8.3.2 Germany

8.3.2.1 Germany market estimates and forecast, 2018 - 2030 (USD Million)

8.3.2.2 Germany RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.3.2.3 Germany RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.3.2.4 Germany RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.3.2.5 Germany RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.3.3 U.K.

8.3.3.1 U.K. market estimates and forecast, 2018 - 2030 (USD Million)

8.3.3.2 U.K. RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.3.3.3 U.K. RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.3.3.4 U.K. RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.3.3.5 U.K. RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.3.4 Italy

8.3.4.1 Italy market estimates and forecast, 2018 - 2030 (USD Million)

8.3.4.2 Italy RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.3.4.3 Italy RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.3.4.4 Italy RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.3.4.5 Italy RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.3.5 Spain

8.3.5.1 Spain market estimates and forecast, 2018 - 2030 (USD Million)

8.3.5.2 Spain RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.3.5.3 Spain RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.3.5.4 Spain RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.3.5.5 Spain RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.3.6 France

8.3.6.1 France market estimates and forecast, 2018 - 2030 (USD Million)

8.3.6.2 France RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.3.6.3 France RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.3.6.4 France RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.3.6.5 France RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

### 8.4 Asia-Pacific

8.4.1 Asia-Pacific Market Estimates And Forecast, 2018 - 2030 (USD Million)

#### 8.4.2 Japan

8.4.2.1 Japan market estimates and forecast, 2018 - 2030 (USD Million)

8.4.2.2 Japan RNA Analysis Market, by Product, 2018 - 2030 (USD Million)



8.4.2.3 Japan RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.4.2.4 Japan RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.4.2.5 Japan RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.4.3 China

8.4.3.1 China market estimates and forecast, 2018 - 2030 (USD Million)

8.4.3.2 China RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.4.3.3 China RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.4.3.4 China RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.4.3.5 China RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.4.4 India

8.4.4.1 India market estimates and forecast, 2018 - 2030 (USD Million)

8.4.4.2 India RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.4.4.3 India RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.4.4.4 India RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.4.4.5 India RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.4.5 Australia

8.4.5.1 Australia market estimates and forecast, 2018 - 2030 (USD Million)

8.4.5.2 Australia RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.4.5.3 Australia RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.4.5.4 Australia RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.4.5.5 Australia RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.4.6 South Korea

8.4.6.1 South Korea market estimates and forecast, 2018 - 2030 (USD Million)

8.4.6.2 South Korea RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.4.6.3 South Korea RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.4.6.4 South Korea RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.4.6.5 South Korea RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

#### 8.5 Latin America

8.5.1 Latin America Market Estimates And Forecast, 2018 - 2030 (USD Million)

##### 8.5.2 Brazil

8.5.2.1 Brazil market estimates and forecast, 2018 - 2030 (USD Million)

8.5.2.2 Brazil RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.5.2.3 Brazil RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.5.2.4 Brazil RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.5.2.5 Brazil RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

##### 8.5.3 Mexico

8.5.3.1 Mexico market estimates and forecast, 2018 - 2030 (USD Million)

8.5.3.2 Mexico RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.5.3.3 Mexico RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.5.3.4 Mexico RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.5.3.5 Mexico RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

## 8.6 Middle East and Africa

8.6.1 Middle-East And Africa Market Estimates And Forecast, 2018 - 2030 (USD Million)

### 8.6.2 South Africa

8.6.2.1 South Africa market estimates and forecast, 2018 - 2030 (USD Million)

8.6.2.2 South Africa RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.6.2.3 South Africa RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.6.2.4 South Africa RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.6.2.5 South Africa RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

### 8.6.3 Saudi Arabia

8.6.3.1 Saudi Arabia market estimates and forecast, 2018 - 2030 (USD Million)

8.6.3.2 Saudi Arabia RNA Analysis Market, by Product, 2018 - 2030 (USD Million)

8.6.3.3 Saudi Arabia RNA Analysis Market, by Technology, 2018 - 2030 (USD Million)

8.6.3.4 Saudi Arabia RNA Analysis Market, by Application, 2018 - 2030 (USD Million)

8.6.3.5 Saudi Arabia RNA Analysis Market, by End-use, 2018 - 2030 (USD Million)

## CHAPTER 9 COMPANY PROFILE

### 9.1.1 Agilent Technologies Inc.

9.1.1.1 Company overview

9.1.1.2 Financial performance

9.1.1.3 Product benchmarking

9.1.1.4 Strategic initiatives

### 9.1.2 Bio-Rad Laboratories, Inc.

9.1.2.1 Company overview

9.1.2.2 Financial performance

9.1.2.3 Product benchmarking

9.1.2.4 Strategic initiatives

### 9.1.3 F.Hoffman-La Roche LTD.

9.1.3.1 Company overview

9.1.3.2 Financial performance

9.1.3.3 Product benchmarking

9.1.3.4 Strategic initiatives

### 9.1.4 IIIUMINA,INC.

9.1.4.1 Company overview

9.1.4.2 Financial performance

- 9.1.4.3 Product benchmarking
- 9.1.4.4 Strategic initiatives
- 9.1.5 QIAGEN
  - 9.1.5.1 Company overview
  - 9.1.5.2 Financial performance
  - 9.1.5.3 Product benchmarking
  - 9.1.5.4 Strategic initiatives
- 9.1.6 Thermo Fisher Scientific, INC.
  - 9.1.6.1 Company overview
  - 9.1.6.2 Financial performance
  - 9.1.6.3 Product benchmarking
  - 9.1.6.4 Strategic initiatives
- 9.1.7 Eurofins Scientific
  - 9.1.7.1 Company overview
  - 9.1.7.2 Financial performance
  - 9.1.7.3 Product benchmarking
  - 9.1.7.4 Strategic initiatives
- 9.1.8 Merck kgaA
  - 9.1.8.1 Company overview
  - 9.1.8.2 Financial performance
  - 9.1.8.3 Product benchmarking
  - 9.1.8.4 Strategic initiatives
- 9.1.9 Pacific Bioscience of California, Inc.
  - 9.1.9.1 Company overview
  - 9.1.9.2 Financial performance
  - 9.1.9.3 Product benchmarking
  - 9.1.9.4 Strategic initiatives
- 9.1.10 Affymetrix inc.
  - 9.1.10.1 Company overview
  - 9.1.10.2 Financial performance
  - 9.1.10.3 Product benchmarking
  - 9.1.10.4 Strategic initiatives

## List Of Tables

### LIST OF TABLES

Table 1 List of Secondary Sources

Table 2 North America RNA analysis market by product, 2018 - 2030 (USD Million)

Table 3 North America RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 4 North America RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 5 North America RNA analysis market by application, 2018 - 2030 (USD Million)

Table 6 North America RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 7 U.S. RNA analysis market by product, 2018 - 2030 (USD Million)

Table 8 U.S. RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 9 U.S. RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 10 U.S. RNA analysis market by application, 2018 - 2030 (USD Million)

Table 11 U.S. RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 12 Canada RNA analysis market by product, 2018 - 2030 (USD Million)

Table 13 Canada RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 14 Canada RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 15 Canada RNA analysis market by application, 2018 - 2030 (USD Million)

Table 16 Canada RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 17 Europe RNA analysis market by product, 2018 - 2030 (USD Million)

Table 18 Europe RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 19 Europe RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 20 Europe RNA analysis market by application, 2018 - 2030 (USD Million)

Table 21 Europe RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 22 Germany RNA analysis market by product, 2018 - 2030 (USD Million)

Table 23 Germany RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 24 Germany RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 25 Germany RNA analysis market by application, 2018 - 2030 (USD Million)

Table 26 Germany RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 27 U.K. RNA analysis market by product, 2018 - 2030 (USD Million)

Table 28 U.K. RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 29 U.K. RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 30 U.K. RNA analysis market by application, 2018 - 2030 (USD Million)

Table 31 U.K. RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 32 France RNA analysis market by product, 2018 - 2030 (USD Million)

Table 33 France RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 34 France RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 35 France RNA analysis market by application, 2018 - 2030 (USD Million)

Table 36 France RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 37 Italy RNA analysis market by product, 2018 - 2030 (USD Million)

Table 38 Italy RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 39 Italy RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 40 Italy RNA analysis market by application, 2018 - 2030 (USD Million)

Table 41 Italy RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 42 Spain RNA analysis market by product, 2018 - 2030 (USD Million)

Table 43 Spain RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 44 Spain RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 45 Spain RNA analysis market by application, 2018 - 2030 (USD Million)

Table 46 Spain RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 47 Asia Pacific RNA analysis market by product, 2018 - 2030 (USD Million)

Table 48 Asia Pacific RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 49 Asia Pacific RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 50 Asia Pacific RNA analysis market by application, 2018 - 2030 (USD Million)

Table 51 Asia Pacific RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 52 China RNA analysis market by product, 2018 - 2030 (USD Million)

Table 53 China RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 54 China RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 55 China RNA analysis market by application, 2018 - 2030 (USD Million)

Table 56 China RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 57 Japan RNA analysis market by product, 2018 - 2030 (USD Million)

Table 58 Japan RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 59 Japan RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 60 Japan RNA analysis market by application, 2018 - 2030 (USD Million)

Table 61 Japan RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 62 India RNA analysis market by product, 2018 - 2030 (USD Million)



Table 63 India RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 64 India RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 65 India RNA analysis market by application, 2018 - 2030 (USD Million)

Table 66 India RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 67 Australia RNA analysis market by product, 2018 - 2030 (USD Million)

Table 68 Australia RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 69 Australia RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 70 Australia RNA analysis market by application, 2018 - 2030 (USD Million)

Table 71 Australia RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 72 South Korea RNA analysis market by product, 2018 - 2030 (USD Million)

Table 73 South Korea RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 74 South Korea RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 75 South Korea RNA analysis market by application, 2018 - 2030 (USD Million)

Table 76 South Korea RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 77 Latin America RNA analysis market by product, 2018 - 2030 (USD Million)

Table 78 Latin America RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 79 Latin America RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 80 Latin America RNA analysis market by application, 2018 - 2030 (USD Million)

Table 81 Latin America RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 82 Brazil RNA analysis market by product, 2018 - 2030 (USD Million)

Table 83 Brazil RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 84 Brazil RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 85 Brazil RNA analysis market by application, 2018 - 2030 (USD Million)

Table 86 Brazil RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 87 Mexico RNA analysis market by product, 2018 - 2030 (USD Million)

Table 88 Mexico RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 89 Mexico RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 90 Mexico RNA analysis market by application, 2018 - 2030 (USD Million)

Table 91 Mexico RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 92 MEA RNA analysis market by product, 2018 - 2030 (USD Million)

Table 93 MEA RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 94 MEA RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 95 MEA RNA analysis market by application, 2018 - 2030 (USD Million)

Table 96 MEA RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 97 South Africa RNA analysis market by product, 2018 - 2030 (USD Million)

Table 98 South Africa RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 99 South Africa RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 100 South Africa RNA analysis market by application, 2018 - 2030 (USD Million)

Table 101 South Africa RNA analysis market by end user, 2018 - 2030 (USD Million)

Table 102 Saudi Arabia RNA analysis market by product, 2018 - 2030 (USD Million)

Table 103 Saudi Arabia RNA analysis kits & reagents market, by product, 2018 - 2030 (USD Million)

Table 104 Saudi Arabia RNA analysis market by technology, 2018 - 2030 (USD Million)

Table 105 Saudi Arabia RNA analysis market by application, 2018 - 2030 (USD Million)

Table 106 Saudi Arabia RNA analysis market by end user, 2018 - 2030 (USD Million)



## List Of Figures

### LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Data triangulation techniques
- Fig. 3 Primary research pattern
- Fig. 4 Market research approaches
- Fig. 5 Value-chain-based sizing & forecasting
- Fig. 6 QFD modeling for market share assessment
- Fig. 7 Market formulation & validation
- Fig. 8 RNA Analysis Market Segmentation
- Fig. 9 Penetration and growth prospect mapping
- Fig. 10 RNA Analysis market driver impact
- Fig. 11 RNA Analysis market restraint impact
- Fig. 12 RNA Analysis market: Products outlook and key takeaways
- Fig. 13 RNA Analysis market: Product Movement Analysis
- Fig. 14 Instruments market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 15 Kits and Reagents market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 16 miRNA and siRNA market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 17 Reverse Transcriptase & RT-PCR market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 18 RNA Extraction & Purification market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 19 RNA Interference market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 20 Others market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 21 Services market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 22 RNA Analysis market: Technology outlook and key takeaways
- Fig. 23 RNA Analysis Market: Technology Movement Analysis
- Fig. 24 Real Time-PCR (qPCR) market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 25 Microarray market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 26 Sequencing market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 27 Others market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 28 RNA Analysis market: Application outlook and key takeaways
- Fig. 29 RNA Analysis Market: Application Movement Analysis
- Fig. 30 Construction of RNA expression atlas market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 31 Epigenetics market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 32 Infectious diseases and pathogenesis market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 33 Alternative RNA splicing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 34 RNA structure and molecular dynamics market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 35 Development and delivery of RNA therapeutics market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 36 Others market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 37 RNA Analysis market: End Use outlook and key takeaways

Fig. 38 RNA Analysis market: End Use Movement Analysis

Fig. 39 Government Institutes & Academic Centers estimates and forecast, 2018 - 2030 (USD Million)

Fig. 40 Pharmaceutical & Biotechnology Companies estimates and forecast, 2018 - 2030 (USD Million)

Fig. 41 Hospitals & Clinics estimates and forecast, 2018 - 2030 (USD Million)

Fig. 42 Contract research Organizations (CROs) estimates and forecast, 2018 - 2030 (USD Million)

Fig. 43 RNA Analysis market: Regional Outlook and Key Takeaways

Fig. 44 RNA Analysis market: Regional movement analysis

Fig. 45 North America market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 46 U.S. market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 47 Canada market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 48 Europe market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 49 Germany market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 50 U.K. market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 51 Italy market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 52 Spain market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 53 France market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 54 Asia-Pacific market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 55 Japan market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 56 China market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 57 India market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 58 Australia market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 59 South Korea market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 60 Latin America market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 61 Brazil market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 62 Mexico market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 63 MEA market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 64 South Africa market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 65 Saudi Arabia market estimates and forecast, 2018 - 2030 (USD Million)

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