

# Global miRNA Sequencing and Assay Market: Size, Trend & Forecast with Impact of COVID-19 (2021-2025)

<https://marketpublishers.com/r/G0B590DB8905EN.html>

Date: October 2021

Pages: 112

Price: US\$ 1,200.00 (Single User License)

ID: G0B590DB8905EN

## Abstracts

The report titled “Global miRNA Sequencing and Assay Market: Size, Trend & Forecast with Impact of COVID-19 (2021-2025)”, provides an in-depth analysis of the global miRNA sequencing and assay market by value, by product, by end-users, by technology, by region, etc. The report provides a regional analysis of the miRNA sequencing and assay market, including the following regions: North America (the US, Canada, and Mexico), Europe (Germany, France, the UK, Rest of Europe), Asia Pacific (Japan, China, India, and Rest of Asia Pacific), Latin America (Brazil, Argentina, and Rest of Latin America), and the Middle East & Africa (Saudi Arabia, South Africa, UAE, and Rest of the Middle East & Africa). The report also provides a detailed analysis of the COVID-19 impact on the miRNA sequencing and assay market.

The report also assesses the key opportunities in the market and outlines the factors that are and will be driving the growth of the industry. Growth of the overall global miRNA sequencing and assay market has also been forecasted for the period 2021-2025, taking into consideration the previous growth patterns, the growth drivers, and the current and future trends.

The global miRNA sequencing and assay market is dominated by few major players. The manufacturers of miRNA sequencing and assay produce different types of products to cater to the needs of various sectors. The key players of the miRNA sequencing and assay market are Illumina, Inc., Thermo Fisher Scientific, Inc., Qiagen, and Perkin Elmer, Inc. are also profiled with their financial information and respective business strategies.

## Company Coverage

Illumina, Inc.

Thermo Fisher Scientific

Qiagen

Perkin Elmer, Inc.

## Region Coverage

North America

Europe

Asia Pacific

Latin America

Middle East & Africa

## Executive Summary

miRNA sequencing is a parallel, next-generation sequencing technology for microRNAs that uses high-throughput DNA sequencing. It differs from previous types of RNA sequencing in that small RNAs are added to the input material. Researchers can use miRNA sequencing to look at tissue-specific expression patterns, illness correlations, and miRNA isoforms, as well as identify previously unknown miRNAs.

The global miRNA sequencing and assay market can be segmented based on product type (Library Preparation kits, and Sequencing Consumables); Technology (Sequencing by Synthesis, Nanopore Sequencing, and Ion Semiconductor Sequencing); and End-Users (Research Institutes, Academic Institutes, and Contract Research Organizations).

Due to variables such as supply chain disruption and demand due to the majority of nations' lockdown announcements, the miRNA sequencing and assay market encountered a shortfall at the commencement of the COVID-19 crisis. As the crisis worsens, medical professionals have realized that creating new diagnostic tests based

on cutting-edge technology is crucial to averting a historic calamity. The discovery that miRNA-based treatments can be employed in vaccines is propelling the miRNA sequencing and assay business forward. Also, the demand for miRNA sequencing has surged as a result of supported government programs.

The global miRNA sequencing and assay market have increased significantly during the years 2019-2020 and projections are made that the market would rise in the next four years i.e. 2021-2025 tremendously. The global miRNA sequencing and assay market is expected to increase due to increasing R&D in the pharmaceutical industry, rising prevalence of non-communicable diseases, widening the range of miRNA application, aging population, etc. Yet the market faces some challenges such as problems in delivery, effectiveness, and specificity of miRNA-based therapeutics, safety, and toxicity issues, etc.

## Contents

### 1. EXECUTIVE SUMMARY

### 2. INTRODUCTION

#### 2.1 RNA: An Overview

##### 2.1.1 Introduction to RNA

##### 2.1.2 Functions of RNA

##### 2.1.3 Types of RNA

#### 2.2 miRNA Sequencing: An Overview

##### 2.2.1 Introduction to miRNA and miRNA Sequencing

##### 2.2.2 Disadvantages of miRNA Sequencing over Other Methods

##### 2.2.3 Advantages of miRNA Sequencing

##### 2.2.4 miRNA-based Therapeutics

#### 2.3 miRNA Sequencing Segment: An Overview

### 3. GLOBAL MARKET ANALYSIS

#### 3.1 Global miRNA Sequencing and Assay Market Analysis

##### 3.1.1 Global miRNA Sequencing and Assay Market by Value

##### 3.1.2 Global miRNA Sequencing and Assay Market by Product (Sequencing Consumables and Library Preparation Kits)

##### 3.1.3 Global miRNA Sequencing and Assay Market by Technology (Synthesis Sequencing, Ion Semiconductor Sequencing, and Nanopore Sequencing)

##### 3.1.4 Global miRNA Sequencing and Assay Market by End-User (Research Institutes, Academic Institutes, and Contract Research Organizations)

##### 3.1.5 Global miRNA Sequencing and Assay Market by Region (North America, Europe, Asia Pacific, Latin America, and Middle East & Africa)

#### 3.2 Global miRNA Sequencing and Assay Market: Product Analysis

##### 3.2.1 Global Sequencing Consumables Market by Value

##### 3.2.2 Global Library Preparation Kits Market by Value

#### 3.3 Global miRNA Sequencing and Assay Market: Technology Analysis

##### 3.3.1 Global Synthesis Sequencing Market by Value

##### 3.3.2 Global Ion Semiconductor Sequencing Market by Value

##### 3.3.3 Global Nanopore Sequencing Market by Value

#### 3.4 Global miRNA Sequencing and Assay Market: End-User Analysis

##### 3.4.1 Global miRNA Sequencing and Assay Research Institutes Market by Value

##### 3.4.2 Global miRNA Sequencing and Assay Academic Institutes Market by Value

### 3.4.3 Global miRNA Sequencing and Assay Contract Research Organizations Market by Value

## 4. REGIONAL MARKET ANALYSIS

### 4.1 North America miRNA Sequencing and Assay Market Analysis

#### 4.1.1 North America miRNA Sequencing and Assay Market by Value

#### 4.1.2 North America miRNA Sequencing and Assay Market by Region (US, Canada, and Mexico)

##### 4.1.3 The US miRNA Sequencing and Assay Market by Value

##### 4.1.4 Canada miRNA Sequencing and Assay Market by Value

##### 4.1.5 Mexico miRNA Sequencing and Assay Market by Value

### 4.2 Europe miRNA Sequencing and Assay Market Analysis

#### 4.2.1 Europe miRNA Sequencing and Assay Market by Value

#### 4.2.2 Europe miRNA Sequencing and Assay Market by Region (Germany, France, UK, and Rest of Europe)

##### 4.2.3 Germany miRNA Sequencing and Assay Market by Value

##### 4.2.4 France miRNA Sequencing and Assay Market by Value

##### 4.2.5 UK miRNA Sequencing and Assay Market by Value

##### 4.2.6 Rest of Europe miRNA Sequencing and Assay Market by Value

### 4.3 Asia Pacific miRNA Sequencing and Assay Market Analysis

#### 4.3.1 Asia Pacific miRNA Sequencing and Assay Market by Value

#### 4.3.2 Asia Pacific miRNA Sequencing and Assay Market by Region (Japan, China, India, and Rest of Asia Pacific)

##### 4.3.3 Japan miRNA Sequencing and Assay Market by Value

##### 4.3.4 China miRNA Sequencing and Assay Market by Value

##### 4.3.5 India miRNA Sequencing and Assay Market by Value

##### 4.3.6 Rest of Asia Pacific miRNA Sequencing and Assay Market by Value

### 4.4 Middle East & Africa miRNA Sequencing and Assay Market Analysis

#### 4.4.1 Middle East & Africa miRNA Sequencing and Assay Market by Value

#### 4.4.2 Middle East & Africa miRNA Sequencing and Assay Market by Region (Saudi Arabia, South Africa, UAE, and Rest of Middle East & Africa)

##### 4.4.3 Saudi Arabia miRNA Sequencing and Assay Market by Value

##### 4.4.4 South Africa miRNA Sequencing and Assay Market by Value

##### 4.4.5 UAE miRNA Sequencing and Assay Market by Value

##### 4.4.6 Rest of Middle East & Africa miRNA Sequencing and Assay Market by Value

### 4.5 Latin America miRNA Sequencing and Assay Market Analysis

#### 4.5.1 Latin America miRNA Sequencing and Assay Market by Value

#### 4.5.2 Latin America miRNA Sequencing and Assay Market by Region (Brazil,

Argentina, and Rest of Latin America)

4.5.3 Brazil miRNA Sequencing and Assay Market by Value

4.5.4 Argentina miRNA Sequencing and Assay Market by Value

4.5.5 Rest of Latin America miRNA Sequencing and Assay Market by Value

## **5. IMPACT OF COVID-19**

5.1 Impact of COVID-19 ON miRNA Sequencing Market

5.2 COVID-19 Daily New Confirmed Cases

5.3 Funding for Research on COVID-19

## **6. MARKET DYNAMICS**

6.1 Growth Drivers

6.1.1 Rising Deaths Caused by Non-Communicable Diseases

6.1.2 Rising Spending on Pharmaceutical R&D

6.1.3 Aging Population

6.1.4 Increasing Prevalence of Cancer

6.1.5 Rising R&D in Medical Technology

6.1.6 Widening Range of miRNA Applications

6.2 Challenges

6.2.1 Safety and Toxicity Issues

6.2.2 Problems in Delivery, Effectiveness, and Specificity of miRNA-based Therapeutics

6.3 Market Trends

6.3.1 Development of Innovative Products

6.3.2 Increasing Investment in Genomic Research

## **7. COMPETITIVE LANDSCAPE**

7.1 Global miRNA Sequencing Market Players: A Financial Comparison

7.2 Global miRNA Sequencing Market Players by R&D Expenses

## **8. COMPANY PROFILES**

8.1 Illumina, Inc.

8.1.1 Business Overview

8.1.2 Financial Overview

8.1.3 Business Strategies

## 8.2 Thermo Fisher Scientific, Inc.

### 8.2.1 Business Overview

### 8.2.2 Financial Overview

### 8.2.3 Business Strategies

## 8.3 Qiagen

### 8.3.1 Business Overview

### 8.3.2 Financial Overview

### 8.3.3 Business Strategies

## 8.4 Perkin Elmer, Inc.

### 8.4.1 Business Overview

### 8.4.2 Financial Overview

### 8.4.3 Business Strategies



## List Of Figures

### LIST OF FIGURES

Figure 1: Functions of RNA

Figure 2: Types of RNA

Figure 3: Disadvantages of miRNA Sequencing

Figure 4: Advantages of miRNA Sequencing

Figure 5: miRNA Sequencing Segmentation

Figure 6: Global miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 7: Global miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 8: Global miRNA Sequencing and Sequencing Market by Product; 2020 (Percentage, %)

Figure 9: Global miRNA Sequencing and Assay Market by Technology; 2020 (Percentage, %)

Figure 10: Global miRNA Sequencing and Assay Market by End-Users; 2020 (Percentage, %)

Figure 11: Global miRNA Sequencing and Assay Market by Region; 2020 (Percentage, %)

Figure 12: Global Sequencing Consumables Market by Value; 2019-2020 (US\$ Million)

Figure 13: Global Sequencing Consumables Market by Value; 2021-2025 (US\$ Million)

Figure 14: Global Library Preparation Kits Market by Value; 2019-2020 (US\$ Million)

Figure 15: Global Library Preparation Kits Market by Value; 2021-2025 (US\$ Million)

Figure 16: Global Synthesis Sequencing Market by Value; 2019-2020 (US\$ Million)

Figure 17: Global Synthesis Sequencing Market by Value; 2021-2025 (US\$ Million)

Figure 18: Global Ion Semiconductor Sequencing Market by Value; 2019-2020 (US\$ Million)

Figure 19: Global Ion Semiconductor Sequencing Market by Value; 2021-2025 (US\$ Million)

Figure 20: Global Nanopore Sequencing Market by Value; 2019-2020 (US\$ Million)

Figure 21: Global Nanopore Sequencing Market by Value; 2021-2025 (US\$ Million)

Figure 22: Global miRNA Sequencing and Assay Research Institutes Market by Value; 2019-2020 (US\$ Million)

Figure 23: Global miRNA Sequencing and Assay Research Institutes Market by Value; 2021-2025 (US\$ Million)

Figure 24: Global miRNA Sequencing and Assay Academic Institutes Market by Value; 2019-2020 (US\$ Million)



Figure 25: Global miRNA Sequencing and Assay Academic Institutes Market by Value; 2021-2025 (US\$ Million)

Figure 26: Global miRNA Sequencing and Assay Contract Research Organizations Market by Value; 2019-2020 (US\$ Million)

Figure 27: Global miRNA Sequencing and Assay Contract Research Organizations Market by Value; 2021-2025 (US\$ Million)

Figure 28: North America miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 29: North America miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 30: North America miRNA Sequencing and Assay Market by Region; 2020 (Percentage, %)

Figure 31: The US miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 32: The US miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 33: Canada miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 34: Canada miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 35: Mexico miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 36: Mexico miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 37: Europe miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 38: Europe miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 39: Europe miRNA Sequencing and Assay Market by Region; 2020 (Percentage, %)

Figure 40: Germany miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 41: Germany miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 42: France miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 43: France miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 44: UK miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 45: UK miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 46: Rest of Europe miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 47: Rest of Europe miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 48: Asia Pacific miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 49: Asia Pacific miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 50: Asia Pacific miRNA Sequencing and Assay Market by Region; 2020 (Percentage, %)

Figure 51: Japan miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 52: Japan miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 53: China miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 54: China miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 55: India miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 56: India miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 57: Rest of Asia Pacific miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 58: Rest of Asia Pacific miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 59: Middle East & Africa miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 60: Middle East & Africa miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 61: Middle East & Africa miRNA Sequencing and Assay Market by Region; 2020 (Percentage, %)

Figure 62: Saudi Arabia miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 63: Saudi Arabia miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 64: South Africa miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 65: South Africa miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 66: UAE miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 67: UAE miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 68: Rest of MEA miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 69: Rest of MEA miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 70: Latin America miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 71: Latin America miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 72: Latin America miRNA Sequencing and Assay Market by Region; 2020 (Percentage, %)

Figure 73: Brazil miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 74: Brazil miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 75: Argentina miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 76: Argentina miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 77: Rest of LA miRNA Sequencing and Assay Market by Value; 2019-2020 (US\$ Million)

Figure 78: Rest of LA miRNA Sequencing and Assay Market by Value; 2021-2025 (US\$ Million)

Figure 79: Daily New Confirmed Cases COVID-19 Cases in US; 2020(Per Million)

Figure 80: Funding for Research on COVID-19 in US; 2020-2022 (US\$ Million)

Figure 81: Causes of Death; 2000-2019 (Percentage, %)

Figure 82: Global Spending on Pharmaceutical R&D; 2016-2020 (US\$ Billion)

Figure 83: Global Aging Population; 2000-2020 (Billion)

Figure 84: Estimated Number of New Cases Worldwide, Males and Females, All Ages; 2020 (Percentage, %)

Figure 85: Global R&D Spending in Medical Technology; 2015-2020 (US\$ Billion)

Figure 86: Global miRNA Sequencing Market Players by R&D Expenses; 2018-2020 (US\$ Million)

Figure 87: Illumina, Inc. Revenue; 2016-2020 (US\$ Billion)

Figure 88: Illumina, Inc. Revenue by Source; 2020 (Percentage, %)

Figure 89: Illumina, Inc. Revenue by Technology; 2020 (Percentage, %)

Figure 90: Illumina, Inc. Revenue by Geographic Area; 2020 (Percentage, %)

Figure 91: Thermo Fisher Scientific, Inc. Revenue; 2016-2020 (US\$ Billion)

Figure 92: Thermo Fisher Scientific, Inc. Revenue by Market; 2020 (Percentage, %)

Figure 93: Thermo Fisher Scientific, Inc. Revenue by Segment; 2020 (Percentage, %)

Figure 94: Thermo Fisher Scientific, Inc. Revenue by Product Type; 2020 (Percentage, %)

Figure 95: Thermo Fisher Scientific, Inc. Revenue by Geographic Region; 2020 (Percentage, %)

Figure 96: Qiagen Net Sales; 2016-2020 (US\$ Billion)

Figure 97: Qiagen Net Sales by Product Type; 2020(Percentage, %)

Figure 98: Qiagen Net Sales by Customer Class; 2020 (Percentage, %)

Figure 99: Qiagen Net Sales by Geographic Region; 2020(Percentage, %)

Figure 100: Perkin Elmer, Inc. Revenue; 2016-2020 (US\$ Billion)

Figure 101: Perkin Elmer, Inc. Revenue by Segment; 2020 (Percentage, %)

Figure 102: Perkin Elmer, Inc. Revenue by Region; 2020 (Percentage, %)

Table 1: Global miRNA Sequencing Market Players: A Financial Comparison

## I would like to order

Product name: Global miRNA Sequencing and Assay Market: Size, Trend & Forecast with Impact of COVID-19 (2021-2025)

Product link: <https://marketpublishers.com/r/G0B590DB8905EN.html>

Price: US\$ 1,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G0B590DB8905EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

