

miRNA Sequencing And Assay Market Size, Share & Trends Analysis Report By Product & Service, By Technology, By Workflow, By Application, By End-use, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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miRNA Sequencing And Assay Market Growth & Trends

The global miRNA sequencing and assay market size is expected to reach USD 823.5 million by 2030, according to a new report by Grand View Research, Inc. The market is expected to register a CAGR of 13.25% from 2022 to 2030 owing to the growing application areas of miRNA sequencing in the healthcare sector. For instance, various research studies stated that miRNAs can be efficiently used as biomarkers in the prognosis and diagnosis of cancer (cervical, ovarian, and breast), sepsis, cardiovascular diseases, and nervous system conditions. Thus, miRNA sequence analysis is significantly employed for gene regulation analysis in clinical disorders. For instance, an article published in frontiers, in March 2022, stated that blood-based miRNA biomarkers could be used to correlate brain-based miRNA expression.

The COVID-19 pandemic has enhanced the usage of miRNA to identify the presence of coronavirus. miRNA biomarkers have potential application to indicate and diagnose the COVID-19 severity. It plays a significant role in immune response, viral proliferation, replication of infected cells, and cardiovascular dysfunction. In addition, plasma recovered from COVID-19 patients is rich in antibodies and antiviral miRNAs. It has been utilized to treat COVID-19-infected patients. This has resulted in increasing research studies that focus on the miRNA sequence analysis from the patient as well as the virus.

Prominent players such as PerkinElmer Inc.; Illumina, Inc.; and Qiagen offer innovative sequencing products for several clinical applications. Furthermore, these companies have entered into several strategic initiatives with research institutes to expand the sequencing application in research studies. For instance, in January 2022, BIORCHESTRA, a South Korean biopharmaceutical company, entered into a partnership agreement with SK Biopharmaceuticals to accelerate research and development into novel therapeutic compounds that target miRNAs.

Key market players are involved in the development of new tools, instruments, and kits with high specificity and reproducibility, which is fueling the market growth. For instance, in October 2019, TriLink BioTechnologies introduced two primer sets for its CleanTag kit. Thermo Fisher Scientific's sequencer platform can prepare small RNA libraries using these new Ion Torrent Convert barcode primer sets. Such launches are expected to boost market growth.

miRNA Sequencing And Assay Market Report Highlights

By product & service, product dominated the market in 2021. This is due to the presence of several key companies that offer a broad range of consumables, kits, and instruments for specific applications

By technology, sequencing by synthesis led the market in 2021. This is due to its fast turnaround time, high sensitivity, and high throughput. Moreover, it plays a key role in the mutation detection of tumor tissue, which helps to develop personalized therapies

By workflow, sequencing captured the largest share in 2021 as it is the most important step in the workflow. It has become a key research tool in biological research and several disease diagnoses

By application, cancer dominated the market in 2021. Several ongoing research in cancer using miRNA as a biomarker to study the prognosis and diagnosis of cancer to develop new therapies is contributing to the segment growth

By end-use, research and academic institutes led the market in 2021 with a revenue share of over 50.0%. The growth is attributed to the increased R&D studies conducted by academic institutes using miRNA sequencing techniques

Asia Pacific is projected to witness the highest growth during the forecast period. This is due to the growing healthcare infrastructure, significant targeted population, and high unmet clinical needs

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