

# **Next generation Sequencing Data Analysis Market Size, Trends, Analysis, and Outlook By Product (Services, NGS Commercial Software), By Workflow (Primary, Secondary, Tertiary), By Mode (In-house Data Analysis, Outsourced Data Analysis), By Read Length (Short Read Sequencing, Long Read Sequencing, Very Long Read Sequencing), By End-user (Academic Research, Clinical Research, Hospitals & Clinics, Pharma& Biotech Entities, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Next generation Sequencing Data Analysis market size is poised to register 13.62% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Next generation Sequencing Data Analysis market across By Product (Services, NGS Commercial Software), By Workflow (Primary, Secondary, Tertiary), By Mode (In-house Data Analysis, Outsourced Data Analysis), By Read Length (Short Read Sequencing, Long Read Sequencing, Very Long Read Sequencing), By End-user (Academic Research, Clinical Research, Hospitals & Clinics, Pharma& Biotech Entities, Others).

The Next Generation Sequencing Data Analysis Market is witnessing growth driven by the increasing volume and complexity of genomic data generated by next-generation sequencing (NGS) platforms, and the demand for bioinformatics tools and software solutions for data interpretation, variant calling, and genomic analysis. Next-generation

sequencing data analysis involves the processing, alignment, and annotation of DNA and RNA sequencing reads to identify genetic variants, somatic mutations, and gene expression profiles in biological samples. Key trends shaping its future include the development of cloud-based and scalable bioinformatics pipelines for NGS data storage, processing, and visualization, the integration of AI and deep learning algorithms for predictive modeling and variant prioritization, and the customization of data analysis workflows and software packages for specific research applications, disease contexts, and experimental designs. Moreover, factors such as the advancements in genomic medicine and precision oncology, the expansion of population-scale sequencing initiatives and biobanks, and the collaborations between sequencing platforms and bioinformatics companies are expected to drive market growth in 2024 and beyond.

### Next generation Sequencing Data Analysis Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Next generation Sequencing Data Analysis market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Next generation Sequencing Data Analysis survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Next generation Sequencing Data Analysis industry.

### Key market trends defining the global Next generation Sequencing Data Analysis demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

### Next generation Sequencing Data Analysis Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Next generation Sequencing Data Analysis industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche

segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Next generation Sequencing Data Analysis companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Next generation Sequencing Data Analysis industry

Leading Next generation Sequencing Data Analysis companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Next generation Sequencing Data Analysis companies.

Next generation Sequencing Data Analysis Market Study- Strategic Analysis Review

The Next generation Sequencing Data Analysis market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Next generation Sequencing Data Analysis Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Next generation Sequencing Data Analysis industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

## Next generation Sequencing Data Analysis Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

## North America Next generation Sequencing Data Analysis Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Next generation Sequencing Data Analysis market segments. Similarly, Strong end-user demand is encouraging Canadian Next generation Sequencing Data Analysis companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Next generation Sequencing Data Analysis market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe Next generation Sequencing Data Analysis Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Next generation Sequencing Data Analysis industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Next generation Sequencing Data Analysis market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings,

and a keen understanding of consumer preferences.

Asia Pacific Next generation Sequencing Data Analysis Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Next generation Sequencing Data Analysis in Asia Pacific. In particular, China, India, and South East Asian Next generation Sequencing Data Analysis markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Next generation Sequencing Data Analysis Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Next generation Sequencing Data Analysis Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Next generation Sequencing Data Analysis market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Next generation Sequencing Data Analysis.

Next generation Sequencing Data Analysis Market Company Profiles

The global Next generation Sequencing Data Analysis market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis,

growth strategies, and financial profiles. Leading companies included in the study are Agilent Technologies Inc, Bio-Rad Laboratories Inc, Congenica Ltd, DNAnexus Inc, DNASTAR Inc, Eurofins Scientific, F. Hoffmann-La Roche Ltd, Fabric Genomics Inc, Genuity Science, Golden Helix Inc, Illumina Inc, Pacific Biosciences of California Inc, Partek Inc, PierianDx, Precigen Bioinformatics Germany GmbH, QIAGEN, SciGenom Labs Pvt Ltd, Thermo Fisher Scientific Inc, Verily Life Science

## Recent Next generation Sequencing Data Analysis Market Developments

The global Next generation Sequencing Data Analysis market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

## Next generation Sequencing Data Analysis Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

### By Product

#### Services

#### NGS Commercial Software

- Platform OS/UI

- Analytical Software

- QC/Pre-processing Tools

- Alignment Tools & Software

- DNA Sequencing Alignment

- RNA Sequencing Alignment

- Protein Sequencing Alignment

- Others

### By Workflow

#### Primary

#### Secondary

- Read Mapping

- Variant Alignment & Variant Calling

#### Tertiary

- Variant Annotation

- Application Specific



-Targeted Sequencing/Gene Panel

-Exome

-RNA Sequencing

-Whole Genome

-Chip Sequencing

-Others

By Mode

In-house Data Analysis

Outsourced Data Analysis

By Read Length

Short Read Sequencing

Long Read Sequencing

Very Long Read Sequencing

By End-user

Academic Research

Clinical Research

Hospitals & Clinics

Pharma& Biotech Entities

Others



## Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Agilent Technologies Inc

Bio-Rad Laboratories Inc

Congenica Ltd

DNAexus Inc

DNASTAR Inc

Eurofins Scientific

F. Hoffmann-La Roche Ltd

Fabric Genomics Inc

Genuity Science

Golden Helix Inc

Illumina Inc

Pacific Biosciences of California Inc

Partek Inc

PierianDx

Precigen Bioinformatics Germany GmbH

QIAGEN

SciGenom Labs Pvt Ltd

Thermo Fisher Scientific Inc

Verily Life Science

Formats Available: Excel, PDF, and PPT

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##### By Product

##### Services

##### NGS Commercial Software

- Platform OS/UI

- Analytical Software

- QC/Pre-processing Tools

- Alignment Tools & Software

- DNA Sequencing Alignment

- RNA Sequencing Alignment

- Protein Sequencing Alignment

- Others

##### By Workflow

##### Primary

##### Secondary

- Read Mapping

- Variant Alignment & Variant Calling

##### Tertiary

- Variant Annotation

- Application Specific

- Targeted Sequencing/Gene Panel

- Exome

- RNA Sequencing

- Whole Genome

- Chip Sequencing

- Others

##### By Mode

##### In-house Data Analysis

##### Outsourced Data Analysis

##### By Read Length

##### Short Read Sequencing

##### Long Read Sequencing

##### Very Long Read Sequencing

##### By End-user

##### Academic Research

##### Clinical Research

##### Hospitals & Clinics

Pharma& Biotech Entities

Others

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Bio-Rad Laboratories Inc

Congenica Ltd



DNAexus Inc  
DNASTAR Inc  
Eurofins Scientific  
F. Hoffmann-La Roche Ltd  
Fabric Genomics Inc  
Genuity Science  
Golden Helix Inc  
Illumina Inc  
Pacific Biosciences of California Inc  
Partek Inc  
PierianDx  
Precigen Bioinformatics Germany GmbH  
QIAGEN  
SciGenom Labs Pvt Ltd  
Thermo Fisher Scientific Inc  
Verily Life Science

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