

Global AAV Genome Sequencing Service Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AAV Genome Sequencing Service market size was valued at US\$ 232 million in 2025 and is forecast to a readjusted size of US\$ 537 million by 2032 with a CAGR of 12.4% during review period.

AAV Genome Sequencing Service refers to a specialized technical service that employs sequencing technologies (such as short-read NGS, PacBio SMRT, Oxford Nanopore) to comprehensively characterize the genome of Adeno-Associated Virus (AAV) vectors, covering aspects like the integrity of inverted terminal repeats (ITRs), transgene cassette accuracy, capsid gene variations, and the detection of truncated genomes or host integration events, which is essential for ensuring the safety, efficacy, and quality control of AAV vectors in gene therapy research, development, and manufacturing, while also supporting regulatory submissions and clinical translation.

The demand for AAV Genome Sequencing Service is surging driven by the rapid expansion of the global gene therapy market, where AAV vectors are the most widely used delivery tools; key drivers include the need for vector quality control in preclinical and clinical stages (such as verifying genome integrity, detecting contaminants, and assessing safety risks like host integration), the increasing regulatory requirements for comprehensive vector characterization, and the rising R&D investment in novel AAV serotypes and engineered capsids, creating substantial business opportunities for CROs, sequencing service providers, and biotech companies that offer high-throughput, long-read, and ITR-focused sequencing solutions, with additional potential in manufacturing QC, IND-enabling studies, and post-approval monitoring to reduce late-stage trial failures and accelerate time-to-market for gene therapies.

This report is a detailed and comprehensive analysis for global AAV Genome Sequencing Service market. Both quantitative and qualitative analyses are presented by company, by region & country, by Sequencing Technology and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AAV Genome Sequencing Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global AAV Genome Sequencing Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global AAV Genome Sequencing Service market size and forecasts, by Sequencing Technology and by Application, in consumption value (\$ Million), 2021-2032

Global AAV Genome Sequencing Service market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AAV Genome Sequencing Service

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AAV Genome Sequencing Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Azenta Life Sciences, Eurofins Genomics, Plasmidsaurus, Divergene, SeqCenter, Microsynth, CD Genomics, AcceleVirDx, Avance Biosciences,

AAVnerGene, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AAV Genome Sequencing Service market is split by Sequencing Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Sequencing Technology and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Sequencing Technology

- Short-Read NGS Sequencing

- Long-Read PacBio Sequencing

- Nanopore Sequencing

Market segment by Target Region

- Full-Genome Sequencing

- TR-Region Sequencing

- Capsid Gene Sequencing

Market segment by Application Stage

- Preclinical R&D Sequencing

- Clinical Trial Sequencing

- Manufacturing QC Sequencing

Market segment by Application

Wild-Type AAV

Recombinant AAV (rAAV)

Market segment by players, this report covers

Azenta Life Sciences

Eurofins Genomics

Plasmidsaurus

Divergene

SeqCenter

Microsynth

CD Genomics

AcceleVirDx

Avance Biosciences

AAVnerGene

Merck

CIB DNA Core

PackGene Biotech

Creative Biolabs

AcceleVir

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe AAV Genome Sequencing Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AAV Genome Sequencing Service, with revenue, gross margin, and global market share of AAV Genome Sequencing Service from 2021 to 2026.

Chapter 3, the AAV Genome Sequencing Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Sequencing Technology and by Application, with consumption value and growth rate by Sequencing Technology, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and AAV Genome Sequencing Service market forecast, by regions, by Sequencing Technology and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AAV Genome Sequencing Service.

Chapter 13, to describe AAV Genome Sequencing Service research findings and conclusion.

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