

Viral Capsid Development Market Size, Share & Trends Analysis Report By Type (Adenoviral, Lentiviral), By Application (Gene Therapy, Vaccine Development), By End-use (Academic & Research Institute, CROs & CMOs), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global viral capsid development market size was estimated at USD 314.3 million in 2025 and is projected to reach USD 684.5 million by 2033, growing at a CAGR of 10.36% from 2026 to 2033. Growth is driven by increasing demand for gene therapies, rising viral vector R&D, and advancements in capsid engineering, though high costs and manufacturing complexities may limit expansion.

Advancements in Synthetic Biology & AI-Driven Design

Advancements in synthetic biology, along with AI-powered design advancements, are accelerating the development process of viral capsid systems through enhanced development accuracy and increased developmental capacity. Scientists use directed evolution together with rational protein engineering to create custom vectors that deliver gene therapies with improved safety and better ability to reach specific body tissues.

The process of analyzing extensive databases enables artificial intelligence to discover the best sequences, which decreases the need for experiments while driving clinical development forward and increasing the requirements for superior capsid engineering methods. For instance, in November 2025, in the U.S., Latus Bio expanded its AI/ML strategy for AAV gene therapy, leveraging extensive in vivo capsid datasets and adding leading experts to accelerate capsid discovery, payload design, and targeted delivery in

viral capsid development.

Global Viral Capsid Development Market Report Segmentation

This report forecasts revenue growth and provides an analysis on the latest trends in each of the sub-segments from 2021 to 2033. For this report, Grand View Research has segmented the global viral capsid development market report based on the type, application, end-use, and region.

Type Outlook (Revenue, USD Million, 2021 - 2033)

Adeno-associated Virus (AAV) Capsids

Adenoviral

Lentiviral

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Gene Therapy

Vaccine Development

Cancer Therapy

Others

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Pharmaceutical and Biotechnology Companies

Academic and Research Institute

CROs & CMOs

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

Thailand

South Korea

Latin America

Brazil

Argentina

Middle East and Africa

South Africa

Saudi Arabia

UAE

Kuwait

This report can be delivered to the clients within 2 Business Days

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