

Viral Vector & Plasmid DNA Manufacturing Market by Type (Viral Vector (Retroviruses, Adenoviruses, AAV, Lentiviruses), Plasmid DNA), Workflow (Upstream, Downstream), Application (Cell & Gene Therapy), Diseases (Cancer), End User - Global Forecast to 2028

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Abstracts

The global viral vector and plasmid DNA manufacturing market is projected to reach USD 12.8 billion by 2028 from USD 5.5 billion in 2023, at a CAGR of 18.2% during the forecast period of 2023 to 2028. The growth of this market can be attributed to the availability of funding for the development of gene therapy. Gene therapy is a rapidly growing field, and funding is needed for research and development, clinical trials, and manufacturing. For instance, in December 2022, SonoThera, a biotechnology company announced completion of its USD 60.75 million Series A financing round. The financing will support the continued development of SonoThera's ultrasound-guided, nonviral, gene therapy platform and treatments, designed to provide patients with genetic medicines.

“The vector amplification, editing and expansion segment accounted for the largest share by upstream manufacturing process during the forecast period”

In 2022, vector amplification, editing and expansion segment accounted for the largest share by upstream manufacturing process in the global viral vector and plasmid DNA manufacturing market. Vector amplification, editing, and expansion are critical steps in viral vector and plasmid DNA manufacturing as they directly impact the quantity, quality, and functionality of the vectors. The pharmaceutical and biopharmaceutical industry is witnessing significant advancements, particularly in the development of novel therapeutics and vaccines. Viral vectors and plasmid DNA are crucial tools for delivering therapeutic genes or vaccine antigens. The demand for vector amplification, editing,

and expansion is driven by the need to produce a diverse range of viral vectors and plasmid DNA for various therapeutic and vaccine candidates.

“Europe: The second largest region in the viral vector and plasmid DNA manufacturing market”

Europe accounted for the second-largest market for viral vector and plasmid DNA manufacturing market after North America. The European viral vector and plasmid DNA manufacturing market has witnessed significant growth in recent years, driven by various factors that have propelled its expansion. Europe is at the forefront of developing and adopting emerging technologies in the field of viral vector and plasmid DNA manufacturing market. This includes advancements in viral vector and plasmid DNA manufacturing technologies. The adoption of these innovative technologies accelerates the progress of viral vector and plasmid DNA manufacturing research and expands its applications. Additionally, Europe offers comprehensive training and education programs in viral vector and plasmid DNA manufacturing. Universities, research institutes, and organizations provide funding, and conferences to enhance the knowledge and skills of scientists and researchers. The availability of funding promotes the adoption and utilization of viral vector and plasmid DNA manufacturing technologies in Europe.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 70% and Demand Side 30%

By Designation: C-level - 45%, D-level - 30%, and Others - 25%

By Region: North America -40%, Europe -25%, Asia-Pacific -20%, Latin America -10%, Middle East & Africa- 5%

List of Companies Profiled in the Report:

Lonza Group (Switzerland)

Thermo Fisher Scientific Inc. (US)

Merck KGaA (Germany)

Oxford Biomedica (UK)

FUJIFILM Corporation (Japan)

Charles River Laboratories International, Inc. (US)

Danaher Corporation (US)

Genscript Biotech Corporation (US)

SIRION BIOTECH (Germany)

Catalent, Inc (US)

Novartis AG (Switzerland)

Precision Biosciences (US)

Takara Bio Inc. (japan)

Bluebird Bio, Inc. (US)

Sartorius AG (Germany)

VGXI, INC. (US)

Waisman Biomanufacturing (US)

Kaneka Eurogentec S.A. (Belgium)

PlasmidFactory GmbH (Germany)

WuXi AppTec (China)

Atum (US)

Addgene (US)

Cell and Gene Therapy Catapult (US)

Batavia Biosciences B.V. (Netherlands)

Altogen Biosystems (US)

Research Coverage:

This report provides a detailed picture of the viral vector and plasmid DNA manufacturing market. It aims at estimating the size and future growth potential of the market across different segments such as the type, product & service, workflow, application, disease indication, end user and region. The report also includes an in-depth competitive analysis of the key market players along with their company profiles recent developments and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges

The report provides insights on the following pointers:

Analysis of key drivers (rising prevalence of genetic disorders, cancer, and infectious diseases, availability of funding for the development of gene therapy, effectiveness of viral vectors and ongoing research into viral vector-based gene and cell therapies), restraints (High operational costs associated with cell & gene therapy manufacturing and Short shelf-life of viral vectors), opportunities (Smart capital deployment and planning for scalability, and Leveraging digital to facilitate operational excellence), and challenges (Risk of mutagenesis and other unwanted outcomes, and Individual optimization and low yields hold back downstream processes) influencing the growth of the market.

Product and Service Development/Innovation: Detailed insights on newly launched products & services, and technological assessment of the viral vector and plasmid DNA manufacturing market

Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the viral vector and plasmid DNA manufacturing market

Competitive Assessment: In-depth assessment of market shares, growth strategies and products and service offerings of leading players like Lonza Group AG (Switzerland), Merck KGaA (Germany), Thermo Fisher Scientific Inc. (US), Charles River Laboratories International, Inc. (US), Catalent Inc. (US), WuXi AppTec (China), FUJIFILM Corporation (Japan), GenScript Biotech Corporation (US), Takara Bio Inc. (Japan), Oxford Biomedica (UK), Novartis AG (Switzerland), Precision Biosciences (US), Bluebird Bio, Inc. (US), Sartorius AG (Germany), Danaher Corporation (US), SIRON Biotech (Germany), VGXI, Inc. (US), Waisman Biomanufacturing (US), Kaneka Eurogentec S.A. (Belgium), PlasmidFactory GmbH (Germany), ATUM (US), Addgene (US), Cell and Gene Therapy Catapult (UK), Batavia biosciences (Netherlands), and Altogen Biosystems (US), and among others in the market.

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*Details on Business Overview, Products & services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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