

Global Research-Grade Viral Vector Packaging Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Research-Grade Viral Vector Packaging Service market size is expected to reach \$ 624 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

Research-Grade Viral Vector Packaging Services are customized research outsourcing services for universities, research institutes, hospital laboratories, biotechnology companies, and pharmaceutical early-stage R&D teams. The service mainly covers AAV packaging, lentiviral packaging, adenoviral packaging, retroviral packaging, as well as related steps such as vector construction, plasmid preparation, cell transfection, viral harvest, concentration, purification, titer determination, basic quality control, aliquoting, and delivery. Key upstream materials include target gene fragments, transfer plasmids, packaging plasmids, helper plasmids, HEK293/293T cells or suspension production cell lines, culture media, transfection reagents, buffers, chromatography and ultrafiltration consumables, qPCR/ddPCR assay reagents, and cold-chain packaging materials. Major downstream customers use these services for gene function validation, CRISPR screening, stable cell line generation, in vivo animal delivery, neuroscience research, oncology research, drug target validation, and early-stage cell and gene therapy R&D. The global industry gross margin in 2025 is estimated at approximately 45%-65%.

The research-grade viral vector packaging service market is currently in a steady growth phase, with demand mainly coming from universities, research institutes, hospital laboratories, biotechnology companies, and pharmaceutical early-stage R&D teams. AAV and lentivirus remain the dominant service types. AAV is more commonly used in in vivo delivery, neuroscience, ophthalmology, liver, and muscle-related studies, while lentivirus is widely used in stable expression, gene knockdown, CRISPR

screening, and cell engineering. Compared with GMP viral vector manufacturing, research-grade services place greater emphasis on turnaround time, experimental fit, titer consistency, and technical support. Orders are usually smaller in value but more frequent, and suppliers typically improve customer retention through standardized workflows, mature vector systems, and integrated service offerings.

From the supply side, the global market consists of international life science platform companies, specialized viral vector service providers, Chinese research service companies, and regional CROs. North American and European suppliers have advantages in high-value research projects, specialized vector systems, and international customer service, while Chinese suppliers are highly active in AAV, lentiviral, and adenoviral packaging services, supported by shorter lead times, localized technical support, and flexible pricing. The industry is not highly concentrated. Leading suppliers benefit from brand recognition, technical know-how, and established customer bases, but many smaller providers can still win orders through specific vector types, focused application areas, or regional customer relationships.

Future growth will mainly be driven by continued activity in gene function research, increasing in vivo delivery studies, rising demand for CRISPR screening and cell engineering, and the expansion of early-stage cell and gene therapy R&D programs. As research customers place greater emphasis on experimental efficiency and result consistency, more laboratories are expected to outsource viral packaging to professional service providers instead of building in-house production capabilities. Service upgrades are likely to focus on higher titers, higher purity, better batch consistency, broader serotype options, shorter turnaround times, and integrated solutions from vector design to experimental validation.

The main constraints include intensifying price competition, blurred service boundaries, uneven quality standards, and the development of alternative delivery technologies. Some suppliers operate across research-grade, preclinical-grade, and GMP-grade services at the same time, which can create confusion in market scope and customer positioning. Differences in titer measurement methods, purification levels, empty capsid control, and quality-control items also affect customer evaluation of service quality. In addition, non-viral delivery, mRNA/LNP, transposon systems, and gene-editing delivery tools may divert demand in certain applications. However, viral vectors still have strong technical inertia in in vivo expression, stable integration, mature experimental models, and high-efficiency transduction, supporting continued market growth in the short to medium term.

This report studies the global Research-Grade Viral Vector Packaging Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Research-Grade Viral Vector Packaging Service, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Research-Grade Viral Vector Packaging Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Research-Grade Viral Vector Packaging Service total market, 2021-2032, (USD Million)

Global Research-Grade Viral Vector Packaging Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Research-Grade Viral Vector Packaging Service total market, key domestic companies, and share, (USD Million)

Global Research-Grade Viral Vector Packaging Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global Research-Grade Viral Vector Packaging Service total market by Type, CAGR, 2021-2032, (USD Million)

Global Research-Grade Viral Vector Packaging Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Research-Grade Viral Vector Packaging 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 Charles River Laboratories, Thermo Fisher Scientific, GenScript, VectorBuilder, Azenta Life Sciences, Revvity, PackGene Biotech, OBiO Technology, Ubrigene Biosciences, Hanbio Biotechnology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Research-Grade Viral Vector Packaging Service market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Research-Grade Viral Vector Packaging Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Research-Grade Viral Vector Packaging Service Market, Segmentation by Type:

AAV Packaging

Lentivirus Packaging

Adenovirus Packaging

Other

Global Research-Grade Viral Vector Packaging Service Market, Segmentation by Service Grade:

Standard Research Grade

High-Purity Research Grade

Animal Study Grade

Other

Global Research-Grade Viral Vector Packaging Service Market, Segmentation by Research Field:

Neuroscience Research

Oncology Research

Immunology Research

Other

Global Research-Grade Viral Vector Packaging Service Market, Segmentation by Application:

Academic and Research Institutes

Hospital Laboratories

Biotechnology Companies

Other

Companies Profiled:

Charles River Laboratories

Thermo Fisher Scientific

GenScript

VectorBuilder

Azenta Life Sciences

Revvity

PackGene Biotech

OBiO Technology

Ubrigene Biosciences

Hanbio Biotechnology

Genomeditech

Cyagen Biosciences

Creative Biogene

Vector Biolabs

Applied Biological Materials

BrainVTA

Takara Bio

Key Questions Answered

1. How big is the global Research-Grade Viral Vector Packaging Service market?
2. What is the demand of the global Research-Grade Viral Vector Packaging Service market?
3. What is the year over year growth of the global Research-Grade Viral Vector Packaging Service market?
4. What is the total value of the global Research-Grade Viral Vector Packaging Service market?

5. Who are the Major Players in the global Research-Grade Viral Vector Packaging Service market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Research-Grade Viral Vector Packaging Service Introduction
- 1.2 World Research-Grade Viral Vector Packaging Service Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Research-Grade Viral Vector Packaging Service Total Market by Region (by Headquarter Location)
 - 1.3.1 World Research-Grade Viral Vector Packaging Service Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032)
 - 1.3.3 China Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032)
 - 1.3.4 Europe Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032)
 - 1.3.5 Japan Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032)
 - 1.3.8 India Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Research-Grade Viral Vector Packaging Service Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)
- 2.2 World Research-Grade Viral Vector Packaging Service Consumption Value by Region
 - 2.2.1 World Research-Grade Viral Vector Packaging Service Consumption Value by Region (2021-2026)
 - 2.2.2 World Research-Grade Viral Vector Packaging Service Consumption Value

Forecast by Region (2027-2032)

2.3 United States Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)

2.4 China Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)

2.5 Europe Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)

2.6 Japan Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)

2.7 South Korea Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)

2.8 ASEAN Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)

2.9 India Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032)

3 WORLD RESEARCH-GRADE VIRAL VECTOR PACKAGING SERVICE COMPANIES COMPETITIVE ANALYSIS

3.1 World Research-Grade Viral Vector Packaging Service Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Research-Grade Viral Vector Packaging Service Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Research-Grade Viral Vector Packaging Service in 2025

3.2.3 Global Concentration Ratios (CR8) for Research-Grade Viral Vector Packaging Service in 2025

3.3 Research-Grade Viral Vector Packaging Service Company Evaluation Quadrant

3.4 Research-Grade Viral Vector Packaging Service Market: Overall Company Footprint Analysis

3.4.1 Research-Grade Viral Vector Packaging Service Market: Region Footprint

3.4.2 Research-Grade Viral Vector Packaging Service Market: Company Product Type Footprint

3.4.3 Research-Grade Viral Vector Packaging Service Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Research-Grade Viral Vector Packaging Service Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Research-Grade Viral Vector Packaging Service Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Research-Grade Viral Vector Packaging Service Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Research-Grade Viral Vector Packaging Service Consumption Value Comparison

4.2.1 United States VS China: Research-Grade Viral Vector Packaging Service Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Research-Grade Viral Vector Packaging Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Research-Grade Viral Vector Packaging Service Companies and Market Share, 2021-2026

4.3.1 United States Based Research-Grade Viral Vector Packaging Service Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Research-Grade Viral Vector Packaging Service Revenue, (2021-2026)

4.4 China Based Companies Research-Grade Viral Vector Packaging Service Revenue and Market Share, 2021-2026

4.4.1 China Based Research-Grade Viral Vector Packaging Service Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Research-Grade Viral Vector Packaging Service Revenue, (2021-2026)

4.5 Rest of World Based Research-Grade Viral Vector Packaging Service Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Research-Grade Viral Vector Packaging Service Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Research-Grade Viral Vector Packaging Service Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Research-Grade Viral Vector Packaging Service Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 AAV Packaging

5.2.2 Lentivirus Packaging

5.2.3 Adenovirus Packaging

5.2.4 Other

5.3 Market Segment by Type

5.3.1 World Research-Grade Viral Vector Packaging Service Market Size by Type (2021-2026)

5.3.2 World Research-Grade Viral Vector Packaging Service Market Size by Type (2027-2032)

5.3.3 World Research-Grade Viral Vector Packaging Service Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY SERVICE GRADE

6.1 World Research-Grade Viral Vector Packaging Service Market Size Overview by Service Grade: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Service Grade

6.2.1 Standard Research Grade

6.2.2 High-Purity Research Grade

6.2.3 Animal Study Grade

6.2.4 Other

6.3 Market Segment by Service Grade

6.3.1 World Research-Grade Viral Vector Packaging Service Market Size by Service Grade (2021-2026)

6.3.2 World Research-Grade Viral Vector Packaging Service Market Size by Service Grade (2027-2032)

6.3.3 World Research-Grade Viral Vector Packaging Service Market Size Market Share by Service Grade (2027-2032)

7 MARKET ANALYSIS BY RESEARCH FIELD

7.1 World Research-Grade Viral Vector Packaging Service Market Size Overview by Research Field: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Research Field

7.2.1 Neuroscience Research

7.2.2 Oncology Research

7.2.3 Immunology Research

7.2.4 Other

7.3 Market Segment by Research Field

7.3.1 World Research-Grade Viral Vector Packaging Service Market Size by Research Field (2021-2026)

7.3.2 World Research-Grade Viral Vector Packaging Service Market Size by Research Field (2027-2032)

7.3.3 World Research-Grade Viral Vector Packaging Service Market Size Market Share by Research Field (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Research-Grade Viral Vector Packaging Service Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Academic and Research Institutes

8.2.2 Hospital Laboratories

8.2.3 Biotechnology Companies

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Research-Grade Viral Vector Packaging Service Market Size by Application (2021-2026)

8.3.2 World Research-Grade Viral Vector Packaging Service Market Size by Application (2027-2032)

8.3.3 World Research-Grade Viral Vector Packaging Service Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Charles River Laboratories

9.1.1 Charles River Laboratories Details

9.1.2 Charles River Laboratories Major Business

9.1.3 Charles River Laboratories Research-Grade Viral Vector Packaging Service Product and Services

9.1.4 Charles River Laboratories Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Charles River Laboratories Recent Developments/Updates

9.1.6 Charles River Laboratories Competitive Strengths & Weaknesses

9.2 Thermo Fisher Scientific

- 9.2.1 Thermo Fisher Scientific Details
- 9.2.2 Thermo Fisher Scientific Major Business
- 9.2.3 Thermo Fisher Scientific Research-Grade Viral Vector Packaging Service Product and Services
- 9.2.4 Thermo Fisher Scientific Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
- 9.2.5 Thermo Fisher Scientific Recent Developments/Updates
- 9.2.6 Thermo Fisher Scientific Competitive Strengths & Weaknesses
- 9.3 GenScript
 - 9.3.1 GenScript Details
 - 9.3.2 GenScript Major Business
 - 9.3.3 GenScript Research-Grade Viral Vector Packaging Service Product and Services
 - 9.3.4 GenScript Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.3.5 GenScript Recent Developments/Updates
 - 9.3.6 GenScript Competitive Strengths & Weaknesses
- 9.4 VectorBuilder
 - 9.4.1 VectorBuilder Details
 - 9.4.2 VectorBuilder Major Business
 - 9.4.3 VectorBuilder Research-Grade Viral Vector Packaging Service Product and Services
 - 9.4.4 VectorBuilder Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.4.5 VectorBuilder Recent Developments/Updates
 - 9.4.6 VectorBuilder Competitive Strengths & Weaknesses
- 9.5 Azenta Life Sciences
 - 9.5.1 Azenta Life Sciences Details
 - 9.5.2 Azenta Life Sciences Major Business
 - 9.5.3 Azenta Life Sciences Research-Grade Viral Vector Packaging Service Product and Services
 - 9.5.4 Azenta Life Sciences Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Azenta Life Sciences Recent Developments/Updates
 - 9.5.6 Azenta Life Sciences Competitive Strengths & Weaknesses
- 9.6 Revvity
 - 9.6.1 Revvity Details
 - 9.6.2 Revvity Major Business
 - 9.6.3 Revvity Research-Grade Viral Vector Packaging Service Product and Services
 - 9.6.4 Revvity Research-Grade Viral Vector Packaging Service Revenue, Gross Margin

and Market Share (2021-2026)

9.6.5 Revvity Recent Developments/Updates

9.6.6 Revvity Competitive Strengths & Weaknesses

9.7 PackGene Biotech

9.7.1 PackGene Biotech Details

9.7.2 PackGene Biotech Major Business

9.7.3 PackGene Biotech Research-Grade Viral Vector Packaging Service Product and Services

9.7.4 PackGene Biotech Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.7.5 PackGene Biotech Recent Developments/Updates

9.7.6 PackGene Biotech Competitive Strengths & Weaknesses

9.8 OBiO Technology

9.8.1 OBiO Technology Details

9.8.2 OBiO Technology Major Business

9.8.3 OBiO Technology Research-Grade Viral Vector Packaging Service Product and Services

9.8.4 OBiO Technology Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 OBiO Technology Recent Developments/Updates

9.8.6 OBiO Technology Competitive Strengths & Weaknesses

9.9 Ubrigene Biosciences

9.9.1 Ubrigene Biosciences Details

9.9.2 Ubrigene Biosciences Major Business

9.9.3 Ubrigene Biosciences Research-Grade Viral Vector Packaging Service Product and Services

9.9.4 Ubrigene Biosciences Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 Ubrigene Biosciences Recent Developments/Updates

9.9.6 Ubrigene Biosciences Competitive Strengths & Weaknesses

9.10 Hanbio Biotechnology

9.10.1 Hanbio Biotechnology Details

9.10.2 Hanbio Biotechnology Major Business

9.10.3 Hanbio Biotechnology Research-Grade Viral Vector Packaging Service Product and Services

9.10.4 Hanbio Biotechnology Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 Hanbio Biotechnology Recent Developments/Updates

9.10.6 Hanbio Biotechnology Competitive Strengths & Weaknesses

9.11 Genomeditech

9.11.1 Genomeditech Details

9.11.2 Genomeditech Major Business

9.11.3 Genomeditech Research-Grade Viral Vector Packaging Service Product and Services

9.11.4 Genomeditech Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 Genomeditech Recent Developments/Updates

9.11.6 Genomeditech Competitive Strengths & Weaknesses

9.12 Cyagen Biosciences

9.12.1 Cyagen Biosciences Details

9.12.2 Cyagen Biosciences Major Business

9.12.3 Cyagen Biosciences Research-Grade Viral Vector Packaging Service Product and Services

9.12.4 Cyagen Biosciences Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 Cyagen Biosciences Recent Developments/Updates

9.12.6 Cyagen Biosciences Competitive Strengths & Weaknesses

9.13 Creative Biogene

9.13.1 Creative Biogene Details

9.13.2 Creative Biogene Major Business

9.13.3 Creative Biogene Research-Grade Viral Vector Packaging Service Product and Services

9.13.4 Creative Biogene Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 Creative Biogene Recent Developments/Updates

9.13.6 Creative Biogene Competitive Strengths & Weaknesses

9.14 Vector Biolabs

9.14.1 Vector Biolabs Details

9.14.2 Vector Biolabs Major Business

9.14.3 Vector Biolabs Research-Grade Viral Vector Packaging Service Product and Services

9.14.4 Vector Biolabs Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 Vector Biolabs Recent Developments/Updates

9.14.6 Vector Biolabs Competitive Strengths & Weaknesses

9.15 Applied Biological Materials

9.15.1 Applied Biological Materials Details

9.15.2 Applied Biological Materials Major Business

9.15.3 Applied Biological Materials Research-Grade Viral Vector Packaging Service Product and Services

9.15.4 Applied Biological Materials Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.15.5 Applied Biological Materials Recent Developments/Updates

9.15.6 Applied Biological Materials Competitive Strengths & Weaknesses

9.16 BrainVTA

9.16.1 BrainVTA Details

9.16.2 BrainVTA Major Business

9.16.3 BrainVTA Research-Grade Viral Vector Packaging Service Product and Services

9.16.4 BrainVTA Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.16.5 BrainVTA Recent Developments/Updates

9.16.6 BrainVTA Competitive Strengths & Weaknesses

9.17 Takara Bio

9.17.1 Takara Bio Details

9.17.2 Takara Bio Major Business

9.17.3 Takara Bio Research-Grade Viral Vector Packaging Service Product and Services

9.17.4 Takara Bio Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.17.5 Takara Bio Recent Developments/Updates

9.17.6 Takara Bio Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Research-Grade Viral Vector Packaging Service Industry Chain

10.2 Research-Grade Viral Vector Packaging Service Upstream Analysis

10.3 Research-Grade Viral Vector Packaging Service Midstream Analysis

10.4 Research-Grade Viral Vector Packaging Service Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Research-Grade Viral Vector Packaging Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Research-Grade Viral Vector Packaging Service Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Research-Grade Viral Vector Packaging Service Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Research-Grade Viral Vector Packaging Service Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Research-Grade Viral Vector Packaging Service Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Research-Grade Viral Vector Packaging Service Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Research-Grade Viral Vector Packaging Service Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Research-Grade Viral Vector Packaging Service Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Research-Grade Viral Vector Packaging Service Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Research-Grade Viral Vector Packaging Service Players in 2025

Table 12. World Research-Grade Viral Vector Packaging Service Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Research-Grade Viral Vector Packaging Service Company Evaluation Quadrant

Table 14. Head Office of Key Research-Grade Viral Vector Packaging Service Players

Table 15. Research-Grade Viral Vector Packaging Service Market: Company Product Type Footprint

Table 16. Research-Grade Viral Vector Packaging Service Market: Company Product Application Footprint

Table 17. Research-Grade Viral Vector Packaging Service Mergers & Acquisitions Activity

Table 18. United States VS China Research-Grade Viral Vector Packaging Service Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Research-Grade Viral Vector Packaging Service

Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Research-Grade Viral Vector Packaging Service Companies, Headquarters (States, Country)

Table 21. United States Based Companies Research-Grade Viral Vector Packaging Service Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Research-Grade Viral Vector Packaging Service Revenue Market Share (2021-2026)

Table 23. China Based Research-Grade Viral Vector Packaging Service Companies, Headquarters (Province, Country)

Table 24. China Based Companies Research-Grade Viral Vector Packaging Service Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Research-Grade Viral Vector Packaging Service Revenue Market Share (2021-2026)

Table 26. Rest of World Based Research-Grade Viral Vector Packaging Service Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Research-Grade Viral Vector Packaging Service Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Research-Grade Viral Vector Packaging Service Revenue Market Share (2021-2026)

Table 29. World Research-Grade Viral Vector Packaging Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Research-Grade Viral Vector Packaging Service Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Research-Grade Viral Vector Packaging Service Market Size by Type (2027-2032) & (USD Million)

Table 32. World Research-Grade Viral Vector Packaging Service Market Size by Service Grade, (USD Million), 2021 & 2025 & 2032

Table 33. World Research-Grade Viral Vector Packaging Service Market Size Value by Service Grade (2021-2026) & (USD Million)

Table 34. World Research-Grade Viral Vector Packaging Service Market Size by Service Grade (2027-2032) & (USD Million)

Table 35. World Research-Grade Viral Vector Packaging Service Market Size by Research Field, (USD Million), 2021 & 2025 & 2032

Table 36. World Research-Grade Viral Vector Packaging Service Market Size Value by Research Field (2021-2026) & (USD Million)

Table 37. World Research-Grade Viral Vector Packaging Service Market Size by Research Field (2027-2032) & (USD Million)

Table 38. World Research-Grade Viral Vector Packaging Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Research-Grade Viral Vector Packaging Service Market Size by Application (2021-2026) & (USD Million)

Table 40. World Research-Grade Viral Vector Packaging Service Market Size by Application (2027-2032) & (USD Million)

Table 41. Charles River Laboratories Basic Information, Manufacturing Base and Competitors

Table 42. Charles River Laboratories Major Business

Table 43. Charles River Laboratories Research-Grade Viral Vector Packaging Service Product and Services

Table 44. Charles River Laboratories Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Charles River Laboratories Recent Developments/Updates

Table 46. Charles River Laboratories Competitive Strengths & Weaknesses

Table 47. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 48. Thermo Fisher Scientific Major Business

Table 49. Thermo Fisher Scientific Research-Grade Viral Vector Packaging Service Product and Services

Table 50. Thermo Fisher Scientific Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Thermo Fisher Scientific Recent Developments/Updates

Table 52. Thermo Fisher Scientific Competitive Strengths & Weaknesses

Table 53. GenScript Basic Information, Manufacturing Base and Competitors

Table 54. GenScript Major Business

Table 55. GenScript Research-Grade Viral Vector Packaging Service Product and Services

Table 56. GenScript Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. GenScript Recent Developments/Updates

Table 58. GenScript Competitive Strengths & Weaknesses

Table 59. VectorBuilder Basic Information, Manufacturing Base and Competitors

Table 60. VectorBuilder Major Business

Table 61. VectorBuilder Research-Grade Viral Vector Packaging Service Product and Services

Table 62. VectorBuilder Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. VectorBuilder Recent Developments/Updates

Table 64. VectorBuilder Competitive Strengths & Weaknesses

Table 65. Azenta Life Sciences Basic Information, Manufacturing Base and Competitors

Table 66. Azenta Life Sciences Major Business
Table 67. Azenta Life Sciences Research-Grade Viral Vector Packaging Service Product and Services
Table 68. Azenta Life Sciences Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 69. Azenta Life Sciences Recent Developments/Updates
Table 70. Azenta Life Sciences Competitive Strengths & Weaknesses
Table 71. Revvity Basic Information, Manufacturing Base and Competitors
Table 72. Revvity Major Business
Table 73. Revvity Research-Grade Viral Vector Packaging Service Product and Services
Table 74. Revvity Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. Revvity Recent Developments/Updates
Table 76. Revvity Competitive Strengths & Weaknesses
Table 77. PackGene Biotech Basic Information, Manufacturing Base and Competitors
Table 78. PackGene Biotech Major Business
Table 79. PackGene Biotech Research-Grade Viral Vector Packaging Service Product and Services
Table 80. PackGene Biotech Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. PackGene Biotech Recent Developments/Updates
Table 82. PackGene Biotech Competitive Strengths & Weaknesses
Table 83. OBiO Technology Basic Information, Manufacturing Base and Competitors
Table 84. OBiO Technology Major Business
Table 85. OBiO Technology Research-Grade Viral Vector Packaging Service Product and Services
Table 86. OBiO Technology Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. OBiO Technology Recent Developments/Updates
Table 88. OBiO Technology Competitive Strengths & Weaknesses
Table 89. Ubrigene Biosciences Basic Information, Manufacturing Base and Competitors
Table 90. Ubrigene Biosciences Major Business
Table 91. Ubrigene Biosciences Research-Grade Viral Vector Packaging Service Product and Services
Table 92. Ubrigene Biosciences Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. Ubrigene Biosciences Recent Developments/Updates

Table 94. Ubrigene Biosciences Competitive Strengths & Weaknesses
Table 95. Hanbio Biotechnology Basic Information, Manufacturing Base and Competitors
Table 96. Hanbio Biotechnology Major Business
Table 97. Hanbio Biotechnology Research-Grade Viral Vector Packaging Service Product and Services
Table 98. Hanbio Biotechnology Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 99. Hanbio Biotechnology Recent Developments/Updates
Table 100. Hanbio Biotechnology Competitive Strengths & Weaknesses
Table 101. Genomeditech Basic Information, Manufacturing Base and Competitors
Table 102. Genomeditech Major Business
Table 103. Genomeditech Research-Grade Viral Vector Packaging Service Product and Services
Table 104. Genomeditech Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. Genomeditech Recent Developments/Updates
Table 106. Genomeditech Competitive Strengths & Weaknesses
Table 107. Cyagen Biosciences Basic Information, Manufacturing Base and Competitors
Table 108. Cyagen Biosciences Major Business
Table 109. Cyagen Biosciences Research-Grade Viral Vector Packaging Service Product and Services
Table 110. Cyagen Biosciences Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Cyagen Biosciences Recent Developments/Updates
Table 112. Cyagen Biosciences Competitive Strengths & Weaknesses
Table 113. Creative Biogene Basic Information, Manufacturing Base and Competitors
Table 114. Creative Biogene Major Business
Table 115. Creative Biogene Research-Grade Viral Vector Packaging Service Product and Services
Table 116. Creative Biogene Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Creative Biogene Recent Developments/Updates
Table 118. Creative Biogene Competitive Strengths & Weaknesses
Table 119. Vector Biolabs Basic Information, Manufacturing Base and Competitors
Table 120. Vector Biolabs Major Business
Table 121. Vector Biolabs Research-Grade Viral Vector Packaging Service Product and Services

Table 122. Vector Biolabs Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 123. Vector Biolabs Recent Developments/Updates

Table 124. Vector Biolabs Competitive Strengths & Weaknesses

Table 125. Applied Biological Materials Basic Information, Manufacturing Base and Competitors

Table 126. Applied Biological Materials Major Business

Table 127. Applied Biological Materials Research-Grade Viral Vector Packaging Service Product and Services

Table 128. Applied Biological Materials Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 129. Applied Biological Materials Recent Developments/Updates

Table 130. Applied Biological Materials Competitive Strengths & Weaknesses

Table 131. BrainVTA Basic Information, Manufacturing Base and Competitors

Table 132. BrainVTA Major Business

Table 133. BrainVTA Research-Grade Viral Vector Packaging Service Product and Services

Table 134. BrainVTA Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. BrainVTA Recent Developments/Updates

Table 136. BrainVTA Competitive Strengths & Weaknesses

Table 137. Takara Bio Basic Information, Manufacturing Base and Competitors

Table 138. Takara Bio Major Business

Table 139. Takara Bio Research-Grade Viral Vector Packaging Service Product and Services

Table 140. Takara Bio Research-Grade Viral Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 141. Takara Bio Recent Developments/Updates

Table 142. Takara Bio Competitive Strengths & Weaknesses

Table 143. Global Key Players of Research-Grade Viral Vector Packaging Service Upstream (Raw Materials)

Table 144. Global Research-Grade Viral Vector Packaging Service Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Research-Grade Viral Vector Packaging Service Picture

Figure 2. World Research-Grade Viral Vector Packaging Service Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Research-Grade Viral Vector Packaging Service Total Revenue (2021-2032) & (USD Million)

Figure 4. World Research-Grade Viral Vector Packaging Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Research-Grade Viral Vector Packaging Service Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Research-Grade Viral Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 13. Research-Grade Viral Vector Packaging Service Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 16. World Research-Grade Viral Vector Packaging Service Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 18. China Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 23. India Research-Grade Viral Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Research-Grade Viral Vector Packaging Service by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Research-Grade Viral Vector Packaging Service Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Research-Grade Viral Vector Packaging Service Markets in 2025

Figure 27. United States VS China: Research-Grade Viral Vector Packaging Service Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Research-Grade Viral Vector Packaging Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Research-Grade Viral Vector Packaging Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Type in 2025

Figure 31. AAV Packaging

Figure 32. Lentivirus Packaging

Figure 33. Adenovirus Packaging

Figure 34. Other

Figure 35. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Type (2021-2032)

Figure 36. World Research-Grade Viral Vector Packaging Service Market Size by Service Grade, (USD Million), 2021 & 2025 & 2032

Figure 37. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Service Grade in 2025

Figure 38. Standard Research Grade

Figure 39. High-Purity Research Grade

Figure 40. Animal Study Grade

Figure 41. Other

Figure 42. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Service Grade (2021-2032)

Figure 43. World Research-Grade Viral Vector Packaging Service Market Size by

Research Field, (USD Million), 2021 & 2025 & 2032

Figure 44. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Research Field in 2025

Figure 45. Neuroscience Research

Figure 46. Oncology Research

Figure 47. Immunology Research

Figure 48. Other

Figure 49. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Research Field (2021-2032)

Figure 50. World Research-Grade Viral Vector Packaging Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Application in 2025

Figure 52. Academic and Research Institutes

Figure 53. Hospital Laboratories

Figure 54. Biotechnology Companies

Figure 55. Other

Figure 56. World Research-Grade Viral Vector Packaging Service Market Size Market Share by Application (2021-2032)

Figure 57. Research-Grade Viral Vector Packaging Service Industrial Chain

Figure 58. Methodology

Figure 59. Research Process and Data Source

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