

Global Single-stranded AAV Vector Packaging Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-stranded AAV Vector Packaging Service market size is expected to reach \$ 1584 million by 2032, rising at a market growth of 14.7% CAGR during the forecast period (2026-2032).

Single-stranded AAV vector packaging services refer to customized development and manufacturing activities in which a customer-provided or jointly designed ITR-containing construct is packaged into a single-stranded recombinant adeno-associated viral vector carrying a gene of interest, gene-silencing sequence, gene-editing component or reporter gene. The service workflow generally includes vector design and construction, plasmid preparation, cell culture and transfection, vector harvest, purification, concentration, aliquoting and quality testing. Common production platforms include adherent or suspension HEK293 cells, baculovirus-Sf9 systems and stable producer-cell lines. Key upstream inputs include transfer plasmids, Rep/Cap plasmids, helper plasmids, production cells, culture media, transfection reagents, nucleases, chromatography resins, filtration consumables and analytical reagents. Major downstream customers include universities, research institutes, hospital research platforms, gene therapy developers, biotechnology companies, pharmaceutical companies and CROs, with applications spanning basic research, animal studies, preclinical evaluation, IND submissions, clinical development and commercial manufacturing. The industry's overall gross margin is generally estimated at approximately 35%-50%.

The current market consists of research-grade packaging platforms, specialized AAV CROs and clinical-grade viral-vector CDMOs, creating a tiered competitive structure with substantial differences in project volume and contract value. Research-grade projects are more numerous and customers focus primarily on turnaround time,

serotype coverage, vector titer, purity and suitability for animal studies. Preclinical and GMP projects are less frequent but require considerably greater investment in process development, analytical methods, quality systems and regulatory documentation. Large integrated CDMOs compete through global quality systems, large-scale bioreactors and commercial manufacturing experience, while specialized AAV providers differentiate themselves through high-yield cell lines, packaging plasmids, capsid libraries and rapid-delivery platforms.

Demand is supported by gene-function research, rare-disease and neurological gene therapy programs, engineered-capsid screening and greater outsourcing by biotechnology companies. ssAAV provides a larger payload capacity than scAAV and remains a common format for gene replacement, gene expression, RNA interference and gene-editing delivery. It is widely used in neurological, ophthalmic, neuromuscular, hepatic and metabolic research. As developers seek to improve vector-selection efficiency, parallel multi-serotype packaging, high-throughput small-scale production, dual-vector evaluation and high-dose preparations for large-animal studies are becoming increasingly important. Providers are consequently integrating vector design, packaging, analytics and animal-study support into broader development solutions.

Adherent HEK293 triple-plasmid transient transfection remains widely used for research-grade and smaller projects, while suspension HEK293 systems have become the principal route for clinical and commercial scale-up. Baculovirus-Sf9 platforms are also used for selected large-scale programs. Competition is moving beyond vector-genome titer toward full-capsid enrichment, genome-integrity control and reduction of host-cell proteins, residual DNA and replication-competent AAV. Stable producer cells, dual-plasmid systems and plasmid-free or plasmid-reduced technologies may lower raw-material costs and improve consistency, although process comparability and bridging studies remain important when production platforms are changed.

Market growth remains constrained by fluctuations in gene therapy financing, clinical attrition, underutilized capacity and the inherent limitations of AAV. ssAAV is affected by the need for second-strand synthesis, restricted payload capacity, challenges in repeat dosing, pre-existing neutralizing antibodies and systemic high-dose safety concerns. Lipid nanoparticles and other nonviral delivery platforms may compete in selected indications. At the same time, large GMP facilities constructed during the earlier investment cycle have experienced slower order ramp-up than expected, encouraging providers to compete through platform processes, shorter timelines and flexible batch sizes. Future growth will increasingly depend on programs that progress into clinical development and generate repeat manufacturing orders rather than on discovery-

project counts or nominal capacity expansion.

This report studies the global Single-stranded AAV Vector Packaging Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-stranded AAV 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 Single-stranded AAV Vector Packaging Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-stranded AAV Vector Packaging Service total market, 2021-2032, (USD Million)

Global Single-stranded AAV Vector Packaging Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Single-stranded AAV Vector Packaging Service total market, key domestic companies, and share, (USD Million)

Global Single-stranded AAV Vector Packaging Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global Single-stranded AAV Vector Packaging Service total market by Type, CAGR, 2021-2032, (USD Million)

Global Single-stranded AAV Vector Packaging Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Single-stranded AAV 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 Thermo Fisher Scientific, Lonza, Charles River Laboratories, Catalent, AGC Biologics, SK pharmteco, OXB, Forge Biologics, Viralgen, Andelyn Biosciences, 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 Single-stranded AAV 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 Single-stranded AAV Vector Packaging Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-stranded AAV Vector Packaging Service Market, Segmentation by Type:

Research Grade

Preclinical Grade

GMP Grade

Global Single-stranded AAV Vector Packaging Service Market, Segmentation by Service Scope:

Packaging Only

Vector Construction and Packaging

End-to-End Development and Manufacturing

Global Single-stranded AAV Vector Packaging Service Market, Segmentation by Production Platform:

Adherent HEK293

Suspension HEK293

Baculovirus-Sf9

Other

Global Single-stranded AAV Vector Packaging Service Market, Segmentation by Application:

Academic and Research Institutions

Biotechnology Companies

Other

Companies Profiled:

Thermo Fisher Scientific

Lonza

Charles River Laboratories

Catalent

AGC Biologics

SK pharmteco

OXB

Forge Biologics

Viralgen

Andelyn Biosciences

Rewvity

Virovek

SignaGen Laboratories

Cyagen

Takara Bio

VectorBuilder

GenScript

PackGene Biotech

OBiO Technology

HanBio

GeneChem

Key Questions Answered

1. How big is the global Single-stranded AAV Vector Packaging Service market?
2. What is the demand of the global Single-stranded AAV Vector Packaging Service market?

3. What is the year over year growth of the global Single-stranded AAV Vector Packaging Service market?
4. What is the total value of the global Single-stranded AAV Vector Packaging Service market?
5. Who are the Major Players in the global Single-stranded AAV Vector Packaging Service market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)
- 2.2 World Single-stranded AAV Vector Packaging Service Consumption Value by Region
 - 2.2.1 World Single-stranded AAV Vector Packaging Service Consumption Value by Region (2021-2026)
 - 2.2.2 World Single-stranded AAV Vector Packaging Service Consumption Value

Forecast by Region (2027-2032)

2.3 United States Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)

2.4 China Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)

2.5 Europe Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)

2.6 Japan Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)

2.7 South Korea Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)

2.8 ASEAN Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)

2.9 India Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032)

3 WORLD SINGLE-STRANDED AAV VECTOR PACKAGING SERVICE COMPANIES COMPETITIVE ANALYSIS

3.1 World Single-stranded AAV Vector Packaging Service Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Single-stranded AAV Vector Packaging Service Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Single-stranded AAV Vector Packaging Service in 2025

3.2.3 Global Concentration Ratios (CR8) for Single-stranded AAV Vector Packaging Service in 2025

3.3 Single-stranded AAV Vector Packaging Service Company Evaluation Quadrant

3.4 Single-stranded AAV Vector Packaging Service Market: Overall Company Footprint Analysis

3.4.1 Single-stranded AAV Vector Packaging Service Market: Region Footprint

3.4.2 Single-stranded AAV Vector Packaging Service Market: Company Product Type Footprint

3.4.3 Single-stranded AAV 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: Single-stranded AAV Vector Packaging Service Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Single-stranded AAV Vector Packaging Service Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Single-stranded AAV Vector Packaging Service Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Single-stranded AAV Vector Packaging Service Consumption Value Comparison

4.2.1 United States VS China: Single-stranded AAV Vector Packaging Service Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Single-stranded AAV Vector Packaging Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Single-stranded AAV Vector Packaging Service Companies and Market Share, 2021-2026

4.3.1 United States Based Single-stranded AAV Vector Packaging Service Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Single-stranded AAV Vector Packaging Service Revenue, (2021-2026)

4.4 China Based Companies Single-stranded AAV Vector Packaging Service Revenue and Market Share, 2021-2026

4.4.1 China Based Single-stranded AAV Vector Packaging Service Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Single-stranded AAV Vector Packaging Service Revenue, (2021-2026)

4.5 Rest of World Based Single-stranded AAV Vector Packaging Service Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Single-stranded AAV Vector Packaging Service Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Single-stranded AAV Vector Packaging Service Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Single-stranded AAV Vector Packaging Service Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Research Grade

5.2.2 Preclinical Grade

5.2.3 GMP Grade

5.3 Market Segment by Type

5.3.1 World Single-stranded AAV Vector Packaging Service Market Size by Type (2021-2026)

5.3.2 World Single-stranded AAV Vector Packaging Service Market Size by Type (2027-2032)

5.3.3 World Single-stranded AAV Vector Packaging Service Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY SERVICE SCOPE

6.1 World Single-stranded AAV Vector Packaging Service Market Size Overview by Service Scope: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Service Scope

6.2.1 Packaging Only

6.2.2 Vector Construction and Packaging

6.2.3 End-to-End Development and Manufacturing

6.3 Market Segment by Service Scope

6.3.1 World Single-stranded AAV Vector Packaging Service Market Size by Service Scope (2021-2026)

6.3.2 World Single-stranded AAV Vector Packaging Service Market Size by Service Scope (2027-2032)

6.3.3 World Single-stranded AAV Vector Packaging Service Market Size Market Share by Service Scope (2027-2032)

7 MARKET ANALYSIS BY PRODUCTION PLATFORM

7.1 World Single-stranded AAV Vector Packaging Service Market Size Overview by Production Platform: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Production Platform

7.2.1 Adherent HEK293

7.2.2 Suspension HEK293

7.2.3 Baculovirus-Sf9

7.2.4 Other

7.3 Market Segment by Production Platform

7.3.1 World Single-stranded AAV Vector Packaging Service Market Size by Production Platform (2021-2026)

7.3.2 World Single-stranded AAV Vector Packaging Service Market Size by Production Platform (2027-2032)

7.3.3 World Single-stranded AAV Vector Packaging Service Market Size Market Share by Production Platform (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Single-stranded AAV 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 Institutions

8.2.2 Biotechnology Companies

8.2.3 Other

8.3 Market Segment by Application

8.3.1 World Single-stranded AAV Vector Packaging Service Market Size by Application (2021-2026)

8.3.2 World Single-stranded AAV Vector Packaging Service Market Size by Application (2027-2032)

8.3.3 World Single-stranded AAV Vector Packaging Service Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Thermo Fisher Scientific

9.1.1 Thermo Fisher Scientific Details

9.1.2 Thermo Fisher Scientific Major Business

9.1.3 Thermo Fisher Scientific Single-stranded AAV Vector Packaging Service Product and Services

9.1.4 Thermo Fisher Scientific Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Thermo Fisher Scientific Recent Developments/Updates

9.1.6 Thermo Fisher Scientific Competitive Strengths & Weaknesses

9.2 Lonza

9.2.1 Lonza Details

9.2.2 Lonza Major Business

9.2.3 Lonza Single-stranded AAV Vector Packaging Service Product and Services

9.2.4 Lonza Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Lonza Recent Developments/Updates

9.2.6 Lonza Competitive Strengths & Weaknesses

9.3 Charles River Laboratories

9.3.1 Charles River Laboratories Details

9.3.2 Charles River Laboratories Major Business

9.3.3 Charles River Laboratories Single-stranded AAV Vector Packaging Service Product and Services

9.3.4 Charles River Laboratories Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Charles River Laboratories Recent Developments/Updates

9.3.6 Charles River Laboratories Competitive Strengths & Weaknesses

9.4 Catalent

9.4.1 Catalent Details

9.4.2 Catalent Major Business

9.4.3 Catalent Single-stranded AAV Vector Packaging Service Product and Services

9.4.4 Catalent Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Catalent Recent Developments/Updates

9.4.6 Catalent Competitive Strengths & Weaknesses

9.5 AGC Biologics

9.5.1 AGC Biologics Details

9.5.2 AGC Biologics Major Business

9.5.3 AGC Biologics Single-stranded AAV Vector Packaging Service Product and Services

9.5.4 AGC Biologics Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 AGC Biologics Recent Developments/Updates

9.5.6 AGC Biologics Competitive Strengths & Weaknesses

9.6 SK pharmteco

9.6.1 SK pharmteco Details

9.6.2 SK pharmteco Major Business

9.6.3 SK pharmteco Single-stranded AAV Vector Packaging Service Product and Services

9.6.4 SK pharmteco Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.6.5 SK pharmteco Recent Developments/Updates

9.6.6 SK pharmteco Competitive Strengths & Weaknesses

9.7 OXB

9.7.1 OXB Details

9.7.2 OXB Major Business

9.7.3 OXB Single-stranded AAV Vector Packaging Service Product and Services

9.7.4 OXB Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.7.5 OXB Recent Developments/Updates

9.7.6 OXB Competitive Strengths & Weaknesses

9.8 Forge Biologics

9.8.1 Forge Biologics Details

9.8.2 Forge Biologics Major Business

9.8.3 Forge Biologics Single-stranded AAV Vector Packaging Service Product and Services

9.8.4 Forge Biologics Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 Forge Biologics Recent Developments/Updates

9.8.6 Forge Biologics Competitive Strengths & Weaknesses

9.9 Viralgen

9.9.1 Viralgen Details

9.9.2 Viralgen Major Business

9.9.3 Viralgen Single-stranded AAV Vector Packaging Service Product and Services

9.9.4 Viralgen Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 Viralgen Recent Developments/Updates

9.9.6 Viralgen Competitive Strengths & Weaknesses

9.10 Andelyn Biosciences

9.10.1 Andelyn Biosciences Details

9.10.2 Andelyn Biosciences Major Business

9.10.3 Andelyn Biosciences Single-stranded AAV Vector Packaging Service Product and Services

9.10.4 Andelyn Biosciences Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 Andelyn Biosciences Recent Developments/Updates

9.10.6 Andelyn Biosciences Competitive Strengths & Weaknesses

9.11 Revvity

9.11.1 Revvity Details

9.11.2 Revvity Major Business

9.11.3 Revvity Single-stranded AAV Vector Packaging Service Product and Services

9.11.4 Revvity Single-stranded AAV Vector Packaging Service Revenue, Gross

Margin and Market Share (2021-2026)

9.11.5 Revvity Recent Developments/Updates

9.11.6 Revvity Competitive Strengths & Weaknesses

9.12 Virovek

9.12.1 Virovek Details

9.12.2 Virovek Major Business

9.12.3 Virovek Single-stranded AAV Vector Packaging Service Product and Services

9.12.4 Virovek Single-stranded AAV Vector Packaging Service Revenue, Gross

Margin and Market Share (2021-2026)

9.12.5 Virovek Recent Developments/Updates

9.12.6 Virovek Competitive Strengths & Weaknesses

9.13 SignaGen Laboratories

9.13.1 SignaGen Laboratories Details

9.13.2 SignaGen Laboratories Major Business

9.13.3 SignaGen Laboratories Single-stranded AAV Vector Packaging Service Product and Services

9.13.4 SignaGen Laboratories Single-stranded AAV Vector Packaging Service

Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 SignaGen Laboratories Recent Developments/Updates

9.13.6 SignaGen Laboratories Competitive Strengths & Weaknesses

9.14 Cyagen

9.14.1 Cyagen Details

9.14.2 Cyagen Major Business

9.14.3 Cyagen Single-stranded AAV Vector Packaging Service Product and Services

9.14.4 Cyagen Single-stranded AAV Vector Packaging Service Revenue, Gross

Margin and Market Share (2021-2026)

9.14.5 Cyagen Recent Developments/Updates

9.14.6 Cyagen Competitive Strengths & Weaknesses

9.15 Takara Bio

9.15.1 Takara Bio Details

9.15.2 Takara Bio Major Business

9.15.3 Takara Bio Single-stranded AAV Vector Packaging Service Product and Services

9.15.4 Takara Bio Single-stranded AAV Vector Packaging Service Revenue, Gross

Margin and Market Share (2021-2026)

9.15.5 Takara Bio Recent Developments/Updates

9.15.6 Takara Bio Competitive Strengths & Weaknesses

9.16 VectorBuilder

9.16.1 VectorBuilder Details

- 9.16.2 VectorBuilder Major Business
- 9.16.3 VectorBuilder Single-stranded AAV Vector Packaging Service Product and Services
- 9.16.4 VectorBuilder Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
- 9.16.5 VectorBuilder Recent Developments/Updates
- 9.16.6 VectorBuilder Competitive Strengths & Weaknesses
- 9.17 GenScript
 - 9.17.1 GenScript Details
 - 9.17.2 GenScript Major Business
 - 9.17.3 GenScript Single-stranded AAV Vector Packaging Service Product and Services
 - 9.17.4 GenScript Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.17.5 GenScript Recent Developments/Updates
 - 9.17.6 GenScript Competitive Strengths & Weaknesses
- 9.18 PackGene Biotech
 - 9.18.1 PackGene Biotech Details
 - 9.18.2 PackGene Biotech Major Business
 - 9.18.3 PackGene Biotech Single-stranded AAV Vector Packaging Service Product and Services
 - 9.18.4 PackGene Biotech Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.18.5 PackGene Biotech Recent Developments/Updates
 - 9.18.6 PackGene Biotech Competitive Strengths & Weaknesses
- 9.19 OBiO Technology
 - 9.19.1 OBiO Technology Details
 - 9.19.2 OBiO Technology Major Business
 - 9.19.3 OBiO Technology Single-stranded AAV Vector Packaging Service Product and Services
 - 9.19.4 OBiO Technology Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.19.5 OBiO Technology Recent Developments/Updates
 - 9.19.6 OBiO Technology Competitive Strengths & Weaknesses
- 9.20 HanBio
 - 9.20.1 HanBio Details
 - 9.20.2 HanBio Major Business
 - 9.20.3 HanBio Single-stranded AAV Vector Packaging Service Product and Services
 - 9.20.4 HanBio Single-stranded AAV Vector Packaging Service Revenue, Gross

Margin and Market Share (2021-2026)

9.20.5 HanBio Recent Developments/Updates

9.20.6 HanBio Competitive Strengths & Weaknesses

9.21 GeneChem

9.21.1 GeneChem Details

9.21.2 GeneChem Major Business

9.21.3 GeneChem Single-stranded AAV Vector Packaging Service Product and Services

9.21.4 GeneChem Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026)

9.21.5 GeneChem Recent Developments/Updates

9.21.6 GeneChem Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Single-stranded AAV Vector Packaging Service Industry Chain

10.2 Single-stranded AAV Vector Packaging Service Upstream Analysis

10.3 Single-stranded AAV Vector Packaging Service Midstream Analysis

10.4 Single-stranded AAV 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 Single-stranded AAV Vector Packaging Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Single-stranded AAV Vector Packaging Service Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Single-stranded AAV Vector Packaging Service Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Single-stranded AAV Vector Packaging Service Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Single-stranded AAV Vector Packaging Service Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Single-stranded AAV Vector Packaging Service Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Single-stranded AAV Vector Packaging Service Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Single-stranded AAV Vector Packaging Service Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Single-stranded AAV Vector Packaging Service Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Single-stranded AAV Vector Packaging Service Players in 2025

Table 12. World Single-stranded AAV Vector Packaging Service Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Single-stranded AAV Vector Packaging Service Company Evaluation Quadrant

Table 14. Head Office of Key Single-stranded AAV Vector Packaging Service Players

Table 15. Single-stranded AAV Vector Packaging Service Market: Company Product Type Footprint

Table 16. Single-stranded AAV Vector Packaging Service Market: Company Product Application Footprint

Table 17. Single-stranded AAV Vector Packaging Service Mergers & Acquisitions Activity

Table 18. United States VS China Single-stranded AAV Vector Packaging Service Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Single-stranded AAV Vector Packaging Service

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

Table 20. United States Based Single-stranded AAV Vector Packaging Service Companies, Headquarters (States, Country)

Table 21. United States Based Companies Single-stranded AAV Vector Packaging Service Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Single-stranded AAV Vector Packaging Service Revenue Market Share (2021-2026)

Table 23. China Based Single-stranded AAV Vector Packaging Service Companies, Headquarters (Province, Country)

Table 24. China Based Companies Single-stranded AAV Vector Packaging Service Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Single-stranded AAV Vector Packaging Service Revenue Market Share (2021-2026)

Table 26. Rest of World Based Single-stranded AAV Vector Packaging Service Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Single-stranded AAV Vector Packaging Service Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Single-stranded AAV Vector Packaging Service Revenue Market Share (2021-2026)

Table 29. World Single-stranded AAV Vector Packaging Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Single-stranded AAV Vector Packaging Service Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Single-stranded AAV Vector Packaging Service Market Size by Type (2027-2032) & (USD Million)

Table 32. World Single-stranded AAV Vector Packaging Service Market Size by Service Scope, (USD Million), 2021 & 2025 & 2032

Table 33. World Single-stranded AAV Vector Packaging Service Market Size Value by Service Scope (2021-2026) & (USD Million)

Table 34. World Single-stranded AAV Vector Packaging Service Market Size by Service Scope (2027-2032) & (USD Million)

Table 35. World Single-stranded AAV Vector Packaging Service Market Size by Production Platform, (USD Million), 2021 & 2025 & 2032

Table 36. World Single-stranded AAV Vector Packaging Service Market Size Value by Production Platform (2021-2026) & (USD Million)

Table 37. World Single-stranded AAV Vector Packaging Service Market Size by Production Platform (2027-2032) & (USD Million)

Table 38. World Single-stranded AAV Vector Packaging Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Single-stranded AAV Vector Packaging Service Market Size by Application (2021-2026) & (USD Million)

Table 40. World Single-stranded AAV Vector Packaging Service Market Size by Application (2027-2032) & (USD Million)

Table 41. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 42. Thermo Fisher Scientific Major Business

Table 43. Thermo Fisher Scientific Single-stranded AAV Vector Packaging Service Product and Services

Table 44. Thermo Fisher Scientific Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Thermo Fisher Scientific Recent Developments/Updates

Table 46. Thermo Fisher Scientific Competitive Strengths & Weaknesses

Table 47. Lonza Basic Information, Manufacturing Base and Competitors

Table 48. Lonza Major Business

Table 49. Lonza Single-stranded AAV Vector Packaging Service Product and Services

Table 50. Lonza Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Lonza Recent Developments/Updates

Table 52. Lonza Competitive Strengths & Weaknesses

Table 53. Charles River Laboratories Basic Information, Manufacturing Base and Competitors

Table 54. Charles River Laboratories Major Business

Table 55. Charles River Laboratories Single-stranded AAV Vector Packaging Service Product and Services

Table 56. Charles River Laboratories Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Charles River Laboratories Recent Developments/Updates

Table 58. Charles River Laboratories Competitive Strengths & Weaknesses

Table 59. Catalent Basic Information, Manufacturing Base and Competitors

Table 60. Catalent Major Business

Table 61. Catalent Single-stranded AAV Vector Packaging Service Product and Services

Table 62. Catalent Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Catalent Recent Developments/Updates

Table 64. Catalent Competitive Strengths & Weaknesses

Table 65. AGC Biologics Basic Information, Manufacturing Base and Competitors

Table 66. AGC Biologics Major Business

Table 67. AGC Biologics Single-stranded AAV Vector Packaging Service Product and Services

Table 68. AGC Biologics Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. AGC Biologics Recent Developments/Updates

Table 70. AGC Biologics Competitive Strengths & Weaknesses

Table 71. SK pharmteco Basic Information, Manufacturing Base and Competitors

Table 72. SK pharmteco Major Business

Table 73. SK pharmteco Single-stranded AAV Vector Packaging Service Product and Services

Table 74. SK pharmteco Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. SK pharmteco Recent Developments/Updates

Table 76. SK pharmteco Competitive Strengths & Weaknesses

Table 77. OXB Basic Information, Manufacturing Base and Competitors

Table 78. OXB Major Business

Table 79. OXB Single-stranded AAV Vector Packaging Service Product and Services

Table 80. OXB Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. OXB Recent Developments/Updates

Table 82. OXB Competitive Strengths & Weaknesses

Table 83. Forge Biologics Basic Information, Manufacturing Base and Competitors

Table 84. Forge Biologics Major Business

Table 85. Forge Biologics Single-stranded AAV Vector Packaging Service Product and Services

Table 86. Forge Biologics Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. Forge Biologics Recent Developments/Updates

Table 88. Forge Biologics Competitive Strengths & Weaknesses

Table 89. Viralgen Basic Information, Manufacturing Base and Competitors

Table 90. Viralgen Major Business

Table 91. Viralgen Single-stranded AAV Vector Packaging Service Product and Services

Table 92. Viralgen Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. Viralgen Recent Developments/Updates

Table 94. Viralgen Competitive Strengths & Weaknesses

Table 95. Andelyn Biosciences Basic Information, Manufacturing Base and Competitors

Table 96. Andelyn Biosciences Major Business

Table 97. Andelyn Biosciences Single-stranded AAV Vector Packaging Service Product and Services

Table 98. Andelyn Biosciences Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 99. Andelyn Biosciences Recent Developments/Updates

Table 100. Andelyn Biosciences Competitive Strengths & Weaknesses

Table 101. Revvity Basic Information, Manufacturing Base and Competitors

Table 102. Revvity Major Business

Table 103. Revvity Single-stranded AAV Vector Packaging Service Product and Services

Table 104. Revvity Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 105. Revvity Recent Developments/Updates

Table 106. Revvity Competitive Strengths & Weaknesses

Table 107. Virovek Basic Information, Manufacturing Base and Competitors

Table 108. Virovek Major Business

Table 109. Virovek Single-stranded AAV Vector Packaging Service Product and Services

Table 110. Virovek Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 111. Virovek Recent Developments/Updates

Table 112. Virovek Competitive Strengths & Weaknesses

Table 113. SignaGen Laboratories Basic Information, Manufacturing Base and Competitors

Table 114. SignaGen Laboratories Major Business

Table 115. SignaGen Laboratories Single-stranded AAV Vector Packaging Service Product and Services

Table 116. SignaGen Laboratories Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 117. SignaGen Laboratories Recent Developments/Updates

Table 118. SignaGen Laboratories Competitive Strengths & Weaknesses

Table 119. Cyagen Basic Information, Manufacturing Base and Competitors

Table 120. Cyagen Major Business

Table 121. Cyagen Single-stranded AAV Vector Packaging Service Product and Services

Table 122. Cyagen Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 123. Cyagen Recent Developments/Updates

Table 124. Cyagen Competitive Strengths & Weaknesses

Table 125. Takara Bio Basic Information, Manufacturing Base and Competitors

Table 126. Takara Bio Major Business

Table 127. Takara Bio Single-stranded AAV Vector Packaging Service Product and Services

Table 128. Takara Bio Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 129. Takara Bio Recent Developments/Updates

Table 130. Takara Bio Competitive Strengths & Weaknesses

Table 131. VectorBuilder Basic Information, Manufacturing Base and Competitors

Table 132. VectorBuilder Major Business

Table 133. VectorBuilder Single-stranded AAV Vector Packaging Service Product and Services

Table 134. VectorBuilder Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. VectorBuilder Recent Developments/Updates

Table 136. VectorBuilder Competitive Strengths & Weaknesses

Table 137. GenScript Basic Information, Manufacturing Base and Competitors

Table 138. GenScript Major Business

Table 139. GenScript Single-stranded AAV Vector Packaging Service Product and Services

Table 140. GenScript Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 141. GenScript Recent Developments/Updates

Table 142. GenScript Competitive Strengths & Weaknesses

Table 143. PackGene Biotech Basic Information, Manufacturing Base and Competitors

Table 144. PackGene Biotech Major Business

Table 145. PackGene Biotech Single-stranded AAV Vector Packaging Service Product and Services

Table 146. PackGene Biotech Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 147. PackGene Biotech Recent Developments/Updates

Table 148. PackGene Biotech Competitive Strengths & Weaknesses

Table 149. OBiO Technology Basic Information, Manufacturing Base and Competitors

Table 150. OBiO Technology Major Business

Table 151. OBiO Technology Single-stranded AAV Vector Packaging Service Product and Services

Table 152. OBiO Technology Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 153. OBiO Technology Recent Developments/Updates

Table 154. OBiO Technology Competitive Strengths & Weaknesses
Table 155. HanBio Basic Information, Manufacturing Base and Competitors
Table 156. HanBio Major Business
Table 157. HanBio Single-stranded AAV Vector Packaging Service Product and Services
Table 158. HanBio Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 159. HanBio Recent Developments/Updates
Table 160. HanBio Competitive Strengths & Weaknesses
Table 161. GeneChem Basic Information, Manufacturing Base and Competitors
Table 162. GeneChem Major Business
Table 163. GeneChem Single-stranded AAV Vector Packaging Service Product and Services
Table 164. GeneChem Single-stranded AAV Vector Packaging Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 165. GeneChem Recent Developments/Updates
Table 166. GeneChem Competitive Strengths & Weaknesses
Table 167. Global Key Players of Single-stranded AAV Vector Packaging Service Upstream (Raw Materials)
Table 168. Global Single-stranded AAV Vector Packaging Service Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Single-stranded AAV Vector Packaging Service Picture

Figure 2. World Single-stranded AAV Vector Packaging Service Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Single-stranded AAV Vector Packaging Service Total Revenue (2021-2032) & (USD Million)

Figure 4. World Single-stranded AAV Vector Packaging Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Single-stranded AAV Vector Packaging Service Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Single-stranded AAV Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Single-stranded AAV Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Single-stranded AAV Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Single-stranded AAV Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Single-stranded AAV Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Single-stranded AAV Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Single-stranded AAV Vector Packaging Service Revenue (2021-2032) & (USD Million)

Figure 13. Single-stranded AAV Vector Packaging Service Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 16. World Single-stranded AAV Vector Packaging Service Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 18. China Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

Figure 23. India Single-stranded AAV Vector Packaging Service Consumption Value (2021-2032) & (USD Million)

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

Figure 25. Global Four-firm Concentration Ratios (CR4) for Single-stranded AAV Vector Packaging Service Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Single-stranded AAV Vector Packaging Service Markets in 2025

Figure 27. United States VS China: Single-stranded AAV Vector Packaging Service Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Single-stranded AAV Vector Packaging Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Single-stranded AAV Vector Packaging Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Single-stranded AAV Vector Packaging Service Market Size Market Share by Type in 2025

Figure 31. Research Grade

Figure 32. Preclinical Grade

Figure 33. GMP Grade

Figure 34. World Single-stranded AAV Vector Packaging Service Market Size Market Share by Type (2021-2032)

Figure 35. World Single-stranded AAV Vector Packaging Service Market Size by Service Scope, (USD Million), 2021 & 2025 & 2032

Figure 36. World Single-stranded AAV Vector Packaging Service Market Size Market Share by Service Scope in 2025

Figure 37. Packaging Only

Figure 38. Vector Construction and Packaging

Figure 39. End-to-End Development and Manufacturing

Figure 40. World Single-stranded AAV Vector Packaging Service Market Size Market Share by Service Scope (2021-2032)

Figure 41. World Single-stranded AAV Vector Packaging Service Market Size by Production Platform, (USD Million), 2021 & 2025 & 2032

Figure 42. World Single-stranded AAV Vector Packaging Service Market Size Market

Share by Production Platform in 2025

Figure 43. Adherent HEK293

Figure 44. Suspension HEK293

Figure 45. Baculovirus-Sf9

Figure 46. Other

Figure 47. World Single-stranded AAV Vector Packaging Service Market Size Market Share by Production Platform (2021-2032)

Figure 48. World Single-stranded AAV Vector Packaging Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World Single-stranded AAV Vector Packaging Service Market Size Market Share by Application in 2025

Figure 50. Academic and Research Institutions

Figure 51. Biotechnology Companies

Figure 52. Other

Figure 53. World Single-stranded AAV Vector Packaging Service Market Size Market Share by Application (2021-2032)

Figure 54. Single-stranded AAV Vector Packaging Service Industrial Chain

Figure 55. Methodology

Figure 56. Research Process and Data Source

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