

Global Cas12a Protein Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3D86D816BF3EN.html>

Date: June 2026

Pages: 144

Price: US\$ 4,480.00 (Single User License)

ID: G3D86D816BF3EN

Abstracts

The global Cas12a Protein market size is expected to reach \$ 189 million by 2032, rising at a market growth of 11.5% CAGR during the forecast period (2026-2032).

Cas12a protein (also known as Cpf1) is an RNA-guided endonuclease enzyme belonging to the CRISPR-Cas family. It is derived from bacterial adaptive immune systems and is used for targeted genome editing. Cas12a recognizes a specific DNA sequence guided by a CRISPR RNA (crRNA) and introduces a double-stranded break in DNA, typically generating sticky ends (staggered cuts), which differentiates it from Cas9. It is widely used in gene editing, molecular diagnostics, and synthetic biology. In 2025, global Cas12a Protein production reached approximately 267,000 mg, with an average global market price of around US\$ 320 per mg. Annual production capacity is 312,000 mg. Gross Profit Margin: 72%. The Cas12a protein industry chain is highly concentrated and technology-driven. Upstream consists of gene synthesis, plasmid construction, and recombinant protein expression systems, mainly relying on engineered E. coli or mammalian cell platforms. Midstream is dominated by a small number of global manufacturers such as IDT, NEB, GenScript, and Thermo Fisher, which perform protein purification, enzyme optimization, and formulation into research-grade or GMP-grade products. Downstream demand comes from gene editing research, molecular diagnostics (CRISPR-based detection systems), agricultural biotechnology, and early-stage therapeutic development, with academic institutions and biotech companies being the primary customers. Cas12a is a precision niche enzyme rather than a mass-market biological product. Its value lies not in volume but in functionality: high specificity, programmable DNA targeting, and expanding use in diagnostics and next-generation gene editing systems. The market is still in an early commercialization stage, where pricing remains high due to complex production and limited large-scale demand. However, as CRISPR diagnostics and cell therapy pipelines

mature, Cas12a is likely to shift from a research reagent into a standardized industrial biological tool with more stable demand and gradually improving scalability.

This report studies the global Cas12a Protein production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cas12a Protein 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 Cas12a Protein that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cas12a Protein total production and demand, 2021-2032, (mg)

Global Cas12a Protein total production value, 2021-2032, (USD Million)

Global Cas12a Protein production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (mg), (based on production site)

Global Cas12a Protein consumption by region & country, CAGR, 2021-2032 & (mg)

U.S. VS China: Cas12a Protein domestic production, consumption, key domestic manufacturers and share

Global Cas12a Protein production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (mg)

Global Cas12a Protein production by Product Format, production, value, CAGR, 2021-2032, (USD Million) & (mg)

Global Cas12a Protein production by Application, production, value, CAGR, 2021-2032, (USD Million) & (mg)

This report profiles key players in the global Cas12a Protein market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Integrated DNA Technologies, Thermo Fisher Scientific, New England Biolabs, GenScript Biotech Corporation, Aldevro, Merck KGaA, Takara Bio Inc., Synthego, Revvity, Horizon Discovery, 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 Cas12a Protein market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (mg) and average price (US\$/mg) by manufacturer, by Product Format, 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 Cas12a Protein Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cas12a Protein Market, Segmentation by Product Format:

Purified Cas12a Protein

Cas12a RNP Complex

Cas12a Expression System

Global Cas12a Protein Market, Segmentation by Enzyme Performance Parameters:

High-Fidelity Cas12a

High-Activity Cas12a

Temperature-Tolerant Cas12a

Engineered Variant Cas12a

Global Cas12a Protein Market, Segmentation by Commercial Supply Form:

Large-scale enzyme supply for industrial use

Kit-Based Product

Custom-Modified Cas12a

Global Cas12a Protein Market, Segmentation by Application:

Biomedical Research

Gene Editing & Cell Engineering

Agricultural

Industrial

Others

Companies Profiled:

Integrated DNA Technologies

Thermo Fisher Scientific

New England Biolabs

GenScript Biotech Corporation

Aldevro

Merck KGaA

Takara Bio Inc.

Synthego

Rewvity

Horizon Discovery

Sino Biological

OriGene Technologies

Biomatik

ABclonal Technology

Creative Biolabs

Azenta Life Sciences

Twist Bioscience

Sangon Biotec

Promega Corporation

Bio-Rad Laboratories

Key Questions Answered:

1. How big is the global Cas12a Protein market?
2. What is the demand of the global Cas12a Protein market?
3. What is the year over year growth of the global Cas12a Protein market?

4. What is the production and production value of the global Cas12a Protein market?
5. Who are the key producers in the global Cas12a Protein market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Cas12a Protein Introduction
- 1.2 World Cas12a Protein Supply & Forecast
 - 1.2.1 World Cas12a Protein Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Cas12a Protein Production (2021-2032)
 - 1.2.3 World Cas12a Protein Pricing Trends (2021-2032)
- 1.3 World Cas12a Protein Production by Region (Based on Production Site)
 - 1.3.1 World Cas12a Protein Production Value by Region (2021-2032)
 - 1.3.2 World Cas12a Protein Production by Region (2021-2032)
 - 1.3.3 World Cas12a Protein Average Price by Region (2021-2032)
 - 1.3.4 North America Cas12a Protein Production (2021-2032)
 - 1.3.5 Europe Cas12a Protein Production (2021-2032)
 - 1.3.6 China Cas12a Protein Production (2021-2032)
 - 1.3.7 Japan Cas12a Protein Production (2021-2032)
 - 1.3.8 India Cas12a Protein Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Cas12a Protein Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Cas12a Protein Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Cas12a Protein Demand (2021-2032)
- 2.2 World Cas12a Protein Consumption by Region
 - 2.2.1 World Cas12a Protein Consumption by Region (2021-2026)
 - 2.2.2 World Cas12a Protein Consumption Forecast by Region (2027-2032)
- 2.3 United States Cas12a Protein Consumption (2021-2032)
- 2.4 China Cas12a Protein Consumption (2021-2032)
- 2.5 Europe Cas12a Protein Consumption (2021-2032)
- 2.6 Japan Cas12a Protein Consumption (2021-2032)
- 2.7 South Korea Cas12a Protein Consumption (2021-2032)
- 2.8 ASEAN Cas12a Protein Consumption (2021-2032)
- 2.9 India Cas12a Protein Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Cas12a Protein Production Value by Manufacturer (2021-2026)

3.2 World Cas12a Protein Production by Manufacturer (2021-2026)

3.3 World Cas12a Protein Average Price by Manufacturer (2021-2026)

3.4 Cas12a Protein Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Cas12a Protein Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Cas12a Protein in 2025

3.5.3 Global Concentration Ratios (CR8) for Cas12a Protein in 2025

3.6 Cas12a Protein Market: Overall Company Footprint Analysis

3.6.1 Cas12a Protein Market: Region Footprint

3.6.2 Cas12a Protein Market: Company Product Type Footprint

3.6.3 Cas12a Protein Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Cas12a Protein Production Value Comparison

4.1.1 United States VS China: Cas12a Protein Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Cas12a Protein Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Cas12a Protein Production Comparison

4.2.1 United States VS China: Cas12a Protein Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Cas12a Protein Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Cas12a Protein Consumption Comparison

4.3.1 United States VS China: Cas12a Protein Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Cas12a Protein Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Cas12a Protein Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Cas12a Protein Manufacturers, Headquarters and Production Site (States, Country)

- 4.4.2 United States Based Manufacturers Cas12a Protein Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers Cas12a Protein Production (2021-2026)
- 4.5 China Based Cas12a Protein Manufacturers and Market Share
 - 4.5.1 China Based Cas12a Protein Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Cas12a Protein Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Cas12a Protein Production (2021-2026)
- 4.6 Rest of World Based Cas12a Protein Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Cas12a Protein Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Cas12a Protein Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Cas12a Protein Production (2021-2026)

5 MARKET ANALYSIS BY PRODUCT FORMAT

- 5.1 World Cas12a Protein Market Size Overview by Product Format: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Product Format
 - 5.2.1 Purified Cas12a Protein
 - 5.2.2 Cas12a RNP Complex
 - 5.2.3 Cas12a Expression System
- 5.3 Market Segment by Product Format
 - 5.3.1 World Cas12a Protein Production by Product Format (2021-2032)
 - 5.3.2 World Cas12a Protein Production Value by Product Format (2021-2032)
 - 5.3.3 World Cas12a Protein Average Price by Product Format (2021-2032)

6 MARKET ANALYSIS BY ENZYME PERFORMANCE PARAMETERS

- 6.1 World Cas12a Protein Market Size Overview by Enzyme Performance Parameters: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Enzyme Performance Parameters
 - 6.2.1 High-Fidelity Cas12a
 - 6.2.2 High-Activity Cas12a
 - 6.2.3 Temperature-Tolerant Cas12a
 - 6.2.4 Engineered Variant Cas12a
- 6.3 Market Segment by Enzyme Performance Parameters
 - 6.3.1 World Cas12a Protein Production by Enzyme Performance Parameters

(2021-2032)

6.3.2 World Cas12a Protein Production Value by Enzyme Performance Parameters

(2021-2032)

6.3.3 World Cas12a Protein Average Price by Enzyme Performance Parameters

(2021-2032)

7 MARKET ANALYSIS BY COMMERCIAL SUPPLY FORM

7.1 World Cas12a Protein Market Size Overview by Commercial Supply Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Commercial Supply Form

7.2.1 Large-scale enzyme supply for industrial use

7.2.2 Kit-Based Product

7.2.3 Custom-Modified Cas12a

7.3 Market Segment by Commercial Supply Form

7.3.1 World Cas12a Protein Production by Commercial Supply Form (2021-2032)

7.3.2 World Cas12a Protein Production Value by Commercial Supply Form (2021-2032)

7.3.3 World Cas12a Protein Average Price by Commercial Supply Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Cas12a Protein Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Biomedical Research

8.2.2 Gene Editing & Cell Engineering

8.2.3 Agricultural

8.2.4 Industrial

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Cas12a Protein Production by Application (2021-2032)

8.3.2 World Cas12a Protein Production Value by Application (2021-2032)

8.3.3 World Cas12a Protein Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Integrated DNA Technologies

9.1.1 Integrated DNA Technologies Details

9.1.2 Integrated DNA Technologies Major Business

9.1.3 Integrated DNA Technologies Cas12a Protein Product and Services

- 9.1.4 Integrated DNA Technologies Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Integrated DNA Technologies Recent Developments/Updates
- 9.1.6 Integrated DNA Technologies 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 Cas12a Protein Product and Services
 - 9.2.4 Thermo Fisher Scientific Cas12a Protein Production, Price, Value, 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 New England Biolabs
 - 9.3.1 New England Biolabs Details
 - 9.3.2 New England Biolabs Major Business
 - 9.3.3 New England Biolabs Cas12a Protein Product and Services
 - 9.3.4 New England Biolabs Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 New England Biolabs Recent Developments/Updates
 - 9.3.6 New England Biolabs Competitive Strengths & Weaknesses
- 9.4 GenScript Biotech Corporation
 - 9.4.1 GenScript Biotech Corporation Details
 - 9.4.2 GenScript Biotech Corporation Major Business
 - 9.4.3 GenScript Biotech Corporation Cas12a Protein Product and Services
 - 9.4.4 GenScript Biotech Corporation Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 GenScript Biotech Corporation Recent Developments/Updates
 - 9.4.6 GenScript Biotech Corporation Competitive Strengths & Weaknesses
- 9.5 Aldevro
 - 9.5.1 Aldevro Details
 - 9.5.2 Aldevro Major Business
 - 9.5.3 Aldevro Cas12a Protein Product and Services
 - 9.5.4 Aldevro Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Aldevro Recent Developments/Updates
 - 9.5.6 Aldevro Competitive Strengths & Weaknesses
- 9.6 Merck KGaA
 - 9.6.1 Merck KGaA Details
 - 9.6.2 Merck KGaA Major Business

- 9.6.3 Merck KGaA Cas12a Protein Product and Services
- 9.6.4 Merck KGaA Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Merck KGaA Recent Developments/Updates
- 9.6.6 Merck KGaA Competitive Strengths & Weaknesses
- 9.7 Takara Bio Inc.
- 9.7.1 Takara Bio Inc. Details
- 9.7.2 Takara Bio Inc. Major Business
- 9.7.3 Takara Bio Inc. Cas12a Protein Product and Services
- 9.7.4 Takara Bio Inc. Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Takara Bio Inc. Recent Developments/Updates
- 9.7.6 Takara Bio Inc. Competitive Strengths & Weaknesses
- 9.8 Synthego
- 9.8.1 Synthego Details
- 9.8.2 Synthego Major Business
- 9.8.3 Synthego Cas12a Protein Product and Services
- 9.8.4 Synthego Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Synthego Recent Developments/Updates
- 9.8.6 Synthego Competitive Strengths & Weaknesses
- 9.9 Revvity
- 9.9.1 Revvity Details
- 9.9.2 Revvity Major Business
- 9.9.3 Revvity Cas12a Protein Product and Services
- 9.9.4 Revvity Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Revvity Recent Developments/Updates
- 9.9.6 Revvity Competitive Strengths & Weaknesses
- 9.10 Horizon Discovery
- 9.10.1 Horizon Discovery Details
- 9.10.2 Horizon Discovery Major Business
- 9.10.3 Horizon Discovery Cas12a Protein Product and Services
- 9.10.4 Horizon Discovery Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Horizon Discovery Recent Developments/Updates
- 9.10.6 Horizon Discovery Competitive Strengths & Weaknesses
- 9.11 Sino Biological
- 9.11.1 Sino Biological Details

- 9.11.2 Sino Biological Major Business
- 9.11.3 Sino Biological Cas12a Protein Product and Services
- 9.11.4 Sino Biological Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Sino Biological Recent Developments/Updates
- 9.11.6 Sino Biological Competitive Strengths & Weaknesses
- 9.12 OriGene Technologies
 - 9.12.1 OriGene Technologies Details
 - 9.12.2 OriGene Technologies Major Business
 - 9.12.3 OriGene Technologies Cas12a Protein Product and Services
 - 9.12.4 OriGene Technologies Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 OriGene Technologies Recent Developments/Updates
 - 9.12.6 OriGene Technologies Competitive Strengths & Weaknesses
- 9.13 Biomatik
 - 9.13.1 Biomatik Details
 - 9.13.2 Biomatik Major Business
 - 9.13.3 Biomatik Cas12a Protein Product and Services
 - 9.13.4 Biomatik Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Biomatik Recent Developments/Updates
 - 9.13.6 Biomatik Competitive Strengths & Weaknesses
- 9.14 ABclonal Technology
 - 9.14.1 ABclonal Technology Details
 - 9.14.2 ABclonal Technology Major Business
 - 9.14.3 ABclonal Technology Cas12a Protein Product and Services
 - 9.14.4 ABclonal Technology Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 ABclonal Technology Recent Developments/Updates
 - 9.14.6 ABclonal Technology Competitive Strengths & Weaknesses
- 9.15 Creative Biolabs
 - 9.15.1 Creative Biolabs Details
 - 9.15.2 Creative Biolabs Major Business
 - 9.15.3 Creative Biolabs Cas12a Protein Product and Services
 - 9.15.4 Creative Biolabs Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Creative Biolabs Recent Developments/Updates
 - 9.15.6 Creative Biolabs Competitive Strengths & Weaknesses
- 9.16 Azenta Life Sciences

- 9.16.1 Azenta Life Sciences Details
- 9.16.2 Azenta Life Sciences Major Business
- 9.16.3 Azenta Life Sciences Cas12a Protein Product and Services
- 9.16.4 Azenta Life Sciences Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Azenta Life Sciences Recent Developments/Updates
- 9.16.6 Azenta Life Sciences Competitive Strengths & Weaknesses
- 9.17 Twist Bioscience
- 9.17.1 Twist Bioscience Details
- 9.17.2 Twist Bioscience Major Business
- 9.17.3 Twist Bioscience Cas12a Protein Product and Services
- 9.17.4 Twist Bioscience Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Twist Bioscience Recent Developments/Updates
- 9.17.6 Twist Bioscience Competitive Strengths & Weaknesses
- 9.18 Sangon Biotec
- 9.18.1 Sangon Biotec Details
- 9.18.2 Sangon Biotec Major Business
- 9.18.3 Sangon Biotec Cas12a Protein Product and Services
- 9.18.4 Sangon Biotec Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Sangon Biotec Recent Developments/Updates
- 9.18.6 Sangon Biotec Competitive Strengths & Weaknesses
- 9.19 Promega Corporation
- 9.19.1 Promega Corporation Details
- 9.19.2 Promega Corporation Major Business
- 9.19.3 Promega Corporation Cas12a Protein Product and Services
- 9.19.4 Promega Corporation Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Promega Corporation Recent Developments/Updates
- 9.19.6 Promega Corporation Competitive Strengths & Weaknesses
- 9.20 Bio-Rad Laboratories
- 9.20.1 Bio-Rad Laboratories Details
- 9.20.2 Bio-Rad Laboratories Major Business
- 9.20.3 Bio-Rad Laboratories Cas12a Protein Product and Services
- 9.20.4 Bio-Rad Laboratories Cas12a Protein Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 Bio-Rad Laboratories Recent Developments/Updates
- 9.20.6 Bio-Rad Laboratories Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Cas12a Protein Industry Chain

10.2 Cas12a Protein Upstream Analysis

10.2.1 Cas12a Protein Core Raw Materials

10.2.2 Main Manufacturers of Cas12a Protein Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Cas12a Protein Production Mode

10.6 Cas12a Protein Procurement Model

10.7 Cas12a Protein Industry Sales Model and Sales Channels

10.7.1 Cas12a Protein Sales Model

10.7.2 Cas12a Protein Typical Distributors

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 Cas12a Protein Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Cas12a Protein Production Value by Region (2021-2026) & (USD Million)

Table 3. World Cas12a Protein Production Value by Region (2027-2032) & (USD Million)

Table 4. World Cas12a Protein Production Value Market Share by Region (2021-2026)

Table 5. World Cas12a Protein Production Value Market Share by Region (2027-2032)

Table 6. World Cas12a Protein Production by Region (2021-2026) & (mg)

Table 7. World Cas12a Protein Production by Region (2027-2032) & (mg)

Table 8. World Cas12a Protein Production Market Share by Region (2021-2026)

Table 9. World Cas12a Protein Production Market Share by Region (2027-2032)

Table 10. World Cas12a Protein Average Price by Region (2021-2026) & (US\$/mg)

Table 11. World Cas12a Protein Average Price by Region (2027-2032) & (US\$/mg)

Table 12. Cas12a Protein Major Market Trends

Table 13. World Cas12a Protein Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (mg)

Table 14. World Cas12a Protein Consumption by Region (2021-2026) & (mg)

Table 15. World Cas12a Protein Consumption Forecast by Region (2027-2032) & (mg)

Table 16. World Cas12a Protein Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Cas12a Protein Producers in 2025

Table 18. World Cas12a Protein Production by Manufacturer (2021-2026) & (mg)

Table 19. Production Market Share of Key Cas12a Protein Producers in 2025

Table 20. World Cas12a Protein Average Price by Manufacturer (2021-2026) & (US\$/mg)

Table 21. Global Cas12a Protein Company Evaluation Quadrant

Table 22. World Cas12a Protein Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Cas12a Protein Production Site of Key Manufacturer

Table 24. Cas12a Protein Market: Company Product Type Footprint

Table 25. Cas12a Protein Market: Company Product Application Footprint

Table 26. Cas12a Protein Competitive Factors

Table 27. Cas12a Protein New Entrant and Capacity Expansion Plans

Table 28. Cas12a Protein Mergers & Acquisitions Activity

Table 29. United States VS China Cas12a Protein Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Cas12a Protein Production Comparison, (2021 & 2025 & 2032) & (mg)

Table 31. United States VS China Cas12a Protein Consumption Comparison, (2021 & 2025 & 2032) & (mg)

Table 32. United States Based Cas12a Protein Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Cas12a Protein Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Cas12a Protein Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Cas12a Protein Production (2021-2026) & (mg)

Table 36. United States Based Manufacturers Cas12a Protein Production Market Share (2021-2026)

Table 37. China Based Cas12a Protein Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Cas12a Protein Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Cas12a Protein Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Cas12a Protein Production, (2021-2026) & (mg)

Table 41. China Based Manufacturers Cas12a Protein Production Market Share (2021-2026)

Table 42. Rest of World Based Cas12a Protein Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Cas12a Protein Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Cas12a Protein Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Cas12a Protein Production, (2021-2026) & (mg)

Table 46. Rest of World Based Manufacturers Cas12a Protein Production Market Share (2021-2026)

Table 47. World Cas12a Protein Production Value by Product Format, (USD Million), 2021 & 2025 & 2032

Table 48. World Cas12a Protein Production by Product Format (2021-2026) & (mg)

Table 49. World Cas12a Protein Production by Product Format (2027-2032) & (mg)

Table 50. World Cas12a Protein Production Value by Product Format (2021-2026) & (USD Million)

Table 51. World Cas12a Protein Production Value by Product Format (2027-2032) & (USD Million)

Table 52. World Cas12a Protein Average Price by Product Format (2021-2026) & (US\$/mg)

Table 53. World Cas12a Protein Average Price by Product Format (2027-2032) & (US\$/mg)

Table 54. World Cas12a Protein Production Value by Enzyme Performance Parameters, (USD Million), 2021 & 2025 & 2032

Table 55. World Cas12a Protein Production by Enzyme Performance Parameters (2021-2026) & (mg)

Table 56. World Cas12a Protein Production by Enzyme Performance Parameters (2027-2032) & (mg)

Table 57. World Cas12a Protein Production Value by Enzyme Performance Parameters (2021-2026) & (USD Million)

Table 58. World Cas12a Protein Production Value by Enzyme Performance Parameters (2027-2032) & (USD Million)

Table 59. World Cas12a Protein Average Price by Enzyme Performance Parameters (2021-2026) & (US\$/mg)

Table 60. World Cas12a Protein Average Price by Enzyme Performance Parameters (2027-2032) & (US\$/mg)

Table 61. World Cas12a Protein Production Value by Commercial Supply Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Cas12a Protein Production by Commercial Supply Form (2021-2026) & (mg)

Table 63. World Cas12a Protein Production by Commercial Supply Form (2027-2032) & (mg)

Table 64. World Cas12a Protein Production Value by Commercial Supply Form (2021-2026) & (USD Million)

Table 65. World Cas12a Protein Production Value by Commercial Supply Form (2027-2032) & (USD Million)

Table 66. World Cas12a Protein Average Price by Commercial Supply Form (2021-2026) & (US\$/mg)

Table 67. World Cas12a Protein Average Price by Commercial Supply Form (2027-2032) & (US\$/mg)

Table 68. World Cas12a Protein Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Cas12a Protein Production by Application (2021-2026) & (mg)

Table 70. World Cas12a Protein Production by Application (2027-2032) & (mg)

Table 71. World Cas12a Protein Production Value by Application (2021-2026) & (USD Million)

Table 72. World Cas12a Protein Production Value by Application (2027-2032) & (USD Million)

Table 73. World Cas12a Protein Average Price by Application (2021-2026) & (US\$/mg)

Table 74. World Cas12a Protein Average Price by Application (2027-2032) & (US\$/mg)

Table 75. Integrated DNA Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Integrated DNA Technologies Major Business

Table 77. Integrated DNA Technologies Cas12a Protein Product and Services

Table 78. Integrated DNA Technologies Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Integrated DNA Technologies Recent Developments/Updates

Table 80. Integrated DNA Technologies Competitive Strengths & Weaknesses

Table 81. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 82. Thermo Fisher Scientific Major Business

Table 83. Thermo Fisher Scientific Cas12a Protein Product and Services

Table 84. Thermo Fisher Scientific Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Thermo Fisher Scientific Recent Developments/Updates

Table 86. Thermo Fisher Scientific Competitive Strengths & Weaknesses

Table 87. New England Biolabs Basic Information, Manufacturing Base and Competitors

Table 88. New England Biolabs Major Business

Table 89. New England Biolabs Cas12a Protein Product and Services

Table 90. New England Biolabs Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. New England Biolabs Recent Developments/Updates

Table 92. New England Biolabs Competitive Strengths & Weaknesses

Table 93. GenScript Biotech Corporation Basic Information, Manufacturing Base and Competitors

Table 94. GenScript Biotech Corporation Major Business

Table 95. GenScript Biotech Corporation Cas12a Protein Product and Services

Table 96. GenScript Biotech Corporation Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. GenScript Biotech Corporation Recent Developments/Updates
Table 98. GenScript Biotech Corporation Competitive Strengths & Weaknesses
Table 99. Aldevro Basic Information, Manufacturing Base and Competitors
Table 100. Aldevro Major Business
Table 101. Aldevro Cas12a Protein Product and Services
Table 102. Aldevro Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Aldevro Recent Developments/Updates
Table 104. Aldevro Competitive Strengths & Weaknesses
Table 105. Merck KGaA Basic Information, Manufacturing Base and Competitors
Table 106. Merck KGaA Major Business
Table 107. Merck KGaA Cas12a Protein Product and Services
Table 108. Merck KGaA Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Merck KGaA Recent Developments/Updates
Table 110. Merck KGaA Competitive Strengths & Weaknesses
Table 111. Takara Bio Inc. Basic Information, Manufacturing Base and Competitors
Table 112. Takara Bio Inc. Major Business
Table 113. Takara Bio Inc. Cas12a Protein Product and Services
Table 114. Takara Bio Inc. Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Takara Bio Inc. Recent Developments/Updates
Table 116. Takara Bio Inc. Competitive Strengths & Weaknesses
Table 117. Synthego Basic Information, Manufacturing Base and Competitors
Table 118. Synthego Major Business
Table 119. Synthego Cas12a Protein Product and Services
Table 120. Synthego Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Synthego Recent Developments/Updates
Table 122. Synthego Competitive Strengths & Weaknesses
Table 123. Revvity Basic Information, Manufacturing Base and Competitors
Table 124. Revvity Major Business
Table 125. Revvity Cas12a Protein Product and Services
Table 126. Revvity Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Revvity Recent Developments/Updates
Table 128. Revvity Competitive Strengths & Weaknesses
Table 129. Horizon Discovery Basic Information, Manufacturing Base and Competitors
Table 130. Horizon Discovery Major Business

Table 131. Horizon Discovery Cas12a Protein Product and Services
Table 132. Horizon Discovery Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Horizon Discovery Recent Developments/Updates
Table 134. Horizon Discovery Competitive Strengths & Weaknesses
Table 135. Sino Biological Basic Information, Manufacturing Base and Competitors
Table 136. Sino Biological Major Business
Table 137. Sino Biological Cas12a Protein Product and Services
Table 138. Sino Biological Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Sino Biological Recent Developments/Updates
Table 140. Sino Biological Competitive Strengths & Weaknesses
Table 141. OriGene Technologies Basic Information, Manufacturing Base and Competitors
Table 142. OriGene Technologies Major Business
Table 143. OriGene Technologies Cas12a Protein Product and Services
Table 144. OriGene Technologies Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. OriGene Technologies Recent Developments/Updates
Table 146. OriGene Technologies Competitive Strengths & Weaknesses
Table 147. Biomatik Basic Information, Manufacturing Base and Competitors
Table 148. Biomatik Major Business
Table 149. Biomatik Cas12a Protein Product and Services
Table 150. Biomatik Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Biomatik Recent Developments/Updates
Table 152. Biomatik Competitive Strengths & Weaknesses
Table 153. ABclonal Technology Basic Information, Manufacturing Base and Competitors
Table 154. ABclonal Technology Major Business
Table 155. ABclonal Technology Cas12a Protein Product and Services
Table 156. ABclonal Technology Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. ABclonal Technology Recent Developments/Updates
Table 158. ABclonal Technology Competitive Strengths & Weaknesses
Table 159. Creative Biolabs Basic Information, Manufacturing Base and Competitors
Table 160. Creative Biolabs Major Business
Table 161. Creative Biolabs Cas12a Protein Product and Services
Table 162. Creative Biolabs Cas12a Protein Production (mg), Price (US\$/mg),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Creative Biolabs Recent Developments/Updates

Table 164. Creative Biolabs Competitive Strengths & Weaknesses

Table 165. Azenta Life Sciences Basic Information, Manufacturing Base and Competitors

Table 166. Azenta Life Sciences Major Business

Table 167. Azenta Life Sciences Cas12a Protein Product and Services

Table 168. Azenta Life Sciences Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Azenta Life Sciences Recent Developments/Updates

Table 170. Azenta Life Sciences Competitive Strengths & Weaknesses

Table 171. Twist Bioscience Basic Information, Manufacturing Base and Competitors

Table 172. Twist Bioscience Major Business

Table 173. Twist Bioscience Cas12a Protein Product and Services

Table 174. Twist Bioscience Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Twist Bioscience Recent Developments/Updates

Table 176. Twist Bioscience Competitive Strengths & Weaknesses

Table 177. Sangon Biotec Basic Information, Manufacturing Base and Competitors

Table 178. Sangon Biotec Major Business

Table 179. Sangon Biotec Cas12a Protein Product and Services

Table 180. Sangon Biotec Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Sangon Biotec Recent Developments/Updates

Table 182. Sangon Biotec Competitive Strengths & Weaknesses

Table 183. Promega Corporation Basic Information, Manufacturing Base and Competitors

Table 184. Promega Corporation Major Business

Table 185. Promega Corporation Cas12a Protein Product and Services

Table 186. Promega Corporation Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Promega Corporation Recent Developments/Updates

Table 188. Promega Corporation Competitive Strengths & Weaknesses

Table 189. Bio-Rad Laboratories Basic Information, Manufacturing Base and Competitors

Table 190. Bio-Rad Laboratories Major Business

Table 191. Bio-Rad Laboratories Cas12a Protein Product and Services

Table 192. Bio-Rad Laboratories Cas12a Protein Production (mg), Price (US\$/mg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Bio-Rad Laboratories Recent Developments/Updates

Table 194. Bio-Rad Laboratories Competitive Strengths & Weaknesses

Table 195. Global Key Players of Cas12a Protein Upstream (Raw Materials)

Table 196. Global Cas12a Protein Typical Customers

Table 197. Cas12a Protein Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Cas12a Protein Picture

Figure 2. World Cas12a Protein Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Cas12a Protein Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Cas12a Protein Production (2021-2032) & (mg)

Figure 5. World Cas12a Protein Average Price (2021-2032) & (US\$/mg)

Figure 6. World Cas12a Protein Production Value Market Share by Region (2021-2032)

Figure 7. World Cas12a Protein Production Market Share by Region (2021-2032)

Figure 8. North America Cas12a Protein Production (2021-2032) & (mg)

Figure 9. Europe Cas12a Protein Production (2021-2032) & (mg)

Figure 10. China Cas12a Protein Production (2021-2032) & (mg)

Figure 11. Japan Cas12a Protein Production (2021-2032) & (mg)

Figure 12. India Cas12a Protein Production (2021-2032) & (mg)

Figure 13. Cas12a Protein Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Cas12a Protein Consumption (2021-2032) & (mg)

Figure 16. World Cas12a Protein Consumption Market Share by Region (2021-2032)

Figure 17. United States Cas12a Protein Consumption (2021-2032) & (mg)

Figure 18. China Cas12a Protein Consumption (2021-2032) & (mg)

Figure 19. Europe Cas12a Protein Consumption (2021-2032) & (mg)

Figure 20. Japan Cas12a Protein Consumption (2021-2032) & (mg)

Figure 21. South Korea Cas12a Protein Consumption (2021-2032) & (mg)

Figure 22. ASEAN Cas12a Protein Consumption (2021-2032) & (mg)

Figure 23. India Cas12a Protein Consumption (2021-2032) & (mg)

Figure 24. Producer Shipments of Cas12a Protein by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Cas12a Protein Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Cas12a Protein Markets in 2025

Figure 27. United States VS China: Cas12a Protein Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Cas12a Protein Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Cas12a Protein Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Cas12a Protein Production Market Share 2025

Figure 31. China Based Manufacturers Cas12a Protein Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Cas12a Protein Production Market Share 2025

Figure 33. World Cas12a Protein Production Value by Product Format, (USD Million), 2021 & 2025 & 2032

Figure 34. World Cas12a Protein Production Value Market Share by Product Format in 2025

Figure 35. Purified Cas12a Protein

Figure 36. Cas12a RNP Complex

Figure 37. Cas12a Expression System

Figure 38. World Cas12a Protein Production Market Share by Product Format (2021-2032)

Figure 39. World Cas12a Protein Production Value Market Share by Product Format (2021-2032)

Figure 40. World Cas12a Protein Average Price by Product Format (2021-2032) & (US\$/mg)

Figure 41. World Cas12a Protein Production Value by Enzyme Performance Parameters, (USD Million), 2021 & 2025 & 2032

Figure 42. World Cas12a Protein Production Value Market Share by Enzyme Performance Parameters in 2025

Figure 43. High-Fidelity Cas12a

Figure 44. High-Activity Cas12a

Figure 45. Temperature-Tolerant Cas12a

Figure 46. Engineered Variant Cas12a

Figure 47. World Cas12a Protein Production Market Share by Enzyme Performance Parameters (2021-2032)

Figure 48. World Cas12a Protein Production Value Market Share by Enzyme Performance Parameters (2021-2032)

Figure 49. World Cas12a Protein Average Price by Enzyme Performance Parameters (2021-2032) & (US\$/mg)

Figure 50. World Cas12a Protein Production Value by Commercial Supply Form, (USD Million), 2021 & 2025 & 2032

Figure 51. World Cas12a Protein Production Value Market Share by Commercial Supply Form in 2025

Figure 52. Large-scale enzyme supply for industrial use

Figure 53. Kit-Based Product

Figure 54. Custom-Modified Cas12a

Figure 55. World Cas12a Protein Production Market Share by Commercial Supply Form (2021-2032)

Figure 56. World Cas12a Protein Production Value Market Share by Commercial Supply Form (2021-2032)

Figure 57. World Cas12a Protein Average Price by Commercial Supply Form (2021-2032) & (US\$/mg)

Figure 58. World Cas12a Protein Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Cas12a Protein Production Value Market Share by Application in 2025

Figure 60. Biomedical Research

Figure 61. Gene Editing & Cell Engineering

Figure 62. Agricultural

Figure 63. Industrial

Figure 64. Others

Figure 65. World Cas12a Protein Production Market Share by Application (2021-2032)

Figure 66. World Cas12a Protein Production Value Market Share by Application (2021-2032)

Figure 67. World Cas12a Protein Average Price by Application (2021-2032) & (US\$/mg)

Figure 68. Cas12a Protein Industry Chain

Figure 69. Cas12a Protein Procurement Model

Figure 70. Cas12a Protein Sales Model

Figure 71. Cas12a Protein Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

I would like to order

Product name: Global Cas12a Protein Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G3D86D816BF3EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G3D86D816BF3EN.html>