

Global Cas12a Protein Market Growth 2026-2032

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Abstracts

The global Cas12a Protein market size is predicted to grow from US\$ 83.58 million in 2025 to US\$ 187 million in 2032; it is expected to grow at a CAGR of 12.2% from 2026 to 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.

United States market for Cas12a Protein is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Cas12a Protein is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Cas12a Protein is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Cas12a Protein players cover Integrated DNA Technologies, Thermo Fisher Scientific, New England Biolabs, GenScript Biotech Corporation, Aldevro, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Cas12a Protein Industry Forecast" looks at past sales and reviews total world Cas12a Protein sales in 2025, providing a comprehensive analysis by region and market sector of projected Cas12a Protein sales for 2026 through 2032. With Cas12a Protein sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cas12a Protein industry.

This Insight Report provides a comprehensive analysis of the global Cas12a Protein landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Cas12a Protein portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cas12a Protein market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cas12a Protein and breaks down the forecast by Product Format, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cas12a Protein.

This report presents a comprehensive overview, market shares, and growth opportunities of Cas12a Protein market by product type, application, key manufacturers

and key regions and countries.

Segmentation by Product Format:

Purified Cas12a Protein

Cas12a RNP Complex

Cas12a Expression System

Segmentation by Enzyme Performance Parameters:

High-Fidelity Cas12a

High-Activity Cas12a

Temperature-Tolerant Cas12a

Engineered Variant Cas12a

Segmentation by Commercial Supply Form:

Large-scale enzyme supply for industrial use

Kit-Based Product

Custom-Modified Cas12a

Segmentation by Application:

Biomedical Research

Gene Editing & Cell Engineering

Agricultural

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Integrated DNA Technologies

Thermo Fisher Scientific

New England Biolabs

GenScript Biotech Corporation

Aldevro

Merck KGaA

Takara Bio Inc.

Synthego

Revvity

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 Addressed in this Report

What is the 10-year outlook for the global Cas12a Protein market?

What factors are driving Cas12a Protein market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Cas12a Protein market opportunities vary by end market size?

How does Cas12a Protein break out by Product Format, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Cas12a Protein Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Cas12a Protein by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Cas12a Protein by Country/Region, 2021, 2025 & 2032

2.2 Cas12a Protein Segment by Product Format

- 2.2.1 Purified Cas12a Protein
- 2.2.2 Cas12a RNP Complex
- 2.2.3 Cas12a Expression System
- 2.2.4 Cas12a Protein Sales by Product Format
 - 2.2.4.1 Global Cas12a Protein Sales Market Share by Product Format (2021-2026)
 - 2.2.4.2 Global Cas12a Protein Revenue and Market Share by Product Format (2021-2026)
 - 2.2.4.3 Global Cas12a Protein Sale Price by Product Format (2021-2026)

2.3 Cas12a Protein Segment by Enzyme Performance Parameters

- 2.3.1 High-Fidelity Cas12a
- 2.3.2 High-Activity Cas12a
- 2.3.3 Temperature-Tolerant Cas12a
- 2.3.4 Engineered Variant Cas12a
- 2.3.5 Cas12a Protein Sales by Enzyme Performance Parameters
 - 2.3.5.1 Global Cas12a Protein Sales Market Share by Enzyme Performance Parameters (2021-2026)
 - 2.3.5.2 Global Cas12a Protein Revenue and Market Share by Enzyme Performance

Parameters (2021-2026)

2.3.5.3 Global Cas12a Protein Sale Price by Enzyme Performance Parameters (2021-2026)

2.4 Cas12a Protein Segment by Commercial Supply Form

2.4.1 Large-scale enzyme supply for industrial use

2.4.2 Kit-Based Product

2.4.3 Custom-Modified Cas12a

2.4.4 Cas12a Protein Sales by Commercial Supply Form

2.4.4.1 Global Cas12a Protein Sales Market Share by Commercial Supply Form (2021-2026)

2.4.4.2 Global Cas12a Protein Revenue and Market Share by Commercial Supply Form (2021-2026)

2.4.4.3 Global Cas12a Protein Sale Price by Commercial Supply Form (2021-2026)

2.5 Cas12a Protein Segment by Application

2.5.1 Biomedical Research

2.5.2 Gene Editing & Cell Engineering

2.5.3 Agricultural

2.5.4 Industrial

2.5.5 Others

2.5.6 Cas12a Protein Sales by Application

2.5.6.1 Global Cas12a Protein Sale Market Share by Application (2021-2026)

2.5.6.2 Global Cas12a Protein Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Cas12a Protein Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Cas12a Protein Breakdown Data by Company

3.1.1 Global Cas12a Protein Annual Sales by Company (2021-2026)

3.1.2 Global Cas12a Protein Sales Market Share by Company (2021-2026)

3.2 Global Cas12a Protein Annual Revenue by Company (2021-2026)

3.2.1 Global Cas12a Protein Revenue by Company (2021-2026)

3.2.2 Global Cas12a Protein Revenue Market Share by Company (2021-2026)

3.3 Global Cas12a Protein Sale Price by Company

3.4 Key Manufacturers Cas12a Protein Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Cas12a Protein Product Location Distribution

3.4.2 Players Cas12a Protein Products Offered

3.5 Market Concentration Rate Analysis

- 3.5.1 Competition Landscape Analysis
- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR CAS12A PROTEIN BY GEOGRAPHIC REGION

- 4.1 World Historic Cas12a Protein Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Cas12a Protein Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Cas12a Protein Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Cas12a Protein Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Cas12a Protein Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Cas12a Protein Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Cas12a Protein Sales Growth
- 4.4 APAC Cas12a Protein Sales Growth
- 4.5 Europe Cas12a Protein Sales Growth
- 4.6 Middle East & Africa Cas12a Protein Sales Growth

5 AMERICAS

- 5.1 Americas Cas12a Protein Sales by Country
 - 5.1.1 Americas Cas12a Protein Sales by Country (2021-2026)
 - 5.1.2 Americas Cas12a Protein Revenue by Country (2021-2026)
- 5.2 Americas Cas12a Protein Sales by Product Format (2021-2026)
- 5.3 Americas Cas12a Protein Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Cas12a Protein Sales by Region
 - 6.1.1 APAC Cas12a Protein Sales by Region (2021-2026)
 - 6.1.2 APAC Cas12a Protein Revenue by Region (2021-2026)
- 6.2 APAC Cas12a Protein Sales by Product Format (2021-2026)
- 6.3 APAC Cas12a Protein Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan

- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Cas12a Protein by Country
 - 7.1.1 Europe Cas12a Protein Sales by Country (2021-2026)
 - 7.1.2 Europe Cas12a Protein Revenue by Country (2021-2026)
- 7.2 Europe Cas12a Protein Sales by Product Format (2021-2026)
- 7.3 Europe Cas12a Protein Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Cas12a Protein by Country
 - 8.1.1 Middle East & Africa Cas12a Protein Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Cas12a Protein Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Cas12a Protein Sales by Product Format (2021-2026)
- 8.3 Middle East & Africa Cas12a Protein Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Cas12a Protein
- 10.3 Manufacturing Process Analysis of Cas12a Protein
- 10.4 Industry Chain Structure of Cas12a Protein

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Cas12a Protein Distributors
- 11.3 Cas12a Protein Customer

12 WORLD FORECAST REVIEW FOR CAS12A PROTEIN BY GEOGRAPHIC REGION

- 12.1 Global Cas12a Protein Market Size Forecast by Region
 - 12.1.1 Global Cas12a Protein Forecast by Region (2027-2032)
 - 12.1.2 Global Cas12a Protein Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Cas12a Protein Forecast by Product Format (2027-2032)
- 12.7 Global Cas12a Protein Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Integrated DNA Technologies
 - 13.1.1 Integrated DNA Technologies Company Information
 - 13.1.2 Integrated DNA Technologies Cas12a Protein Product Portfolios and Specifications
 - 13.1.3 Integrated DNA Technologies Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Integrated DNA Technologies Main Business Overview
 - 13.1.5 Integrated DNA Technologies Latest Developments
- 13.2 Thermo Fisher Scientific
 - 13.2.1 Thermo Fisher Scientific Company Information

- 13.2.2 Thermo Fisher Scientific Cas12a Protein Product Portfolios and Specifications
- 13.2.3 Thermo Fisher Scientific Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Thermo Fisher Scientific Main Business Overview
- 13.2.5 Thermo Fisher Scientific Latest Developments
- 13.3 New England Biolabs
 - 13.3.1 New England Biolabs Company Information
 - 13.3.2 New England Biolabs Cas12a Protein Product Portfolios and Specifications
 - 13.3.3 New England Biolabs Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 New England Biolabs Main Business Overview
 - 13.3.5 New England Biolabs Latest Developments
- 13.4 GenScript Biotech Corporation
 - 13.4.1 GenScript Biotech Corporation Company Information
 - 13.4.2 GenScript Biotech Corporation Cas12a Protein Product Portfolios and Specifications
 - 13.4.3 GenScript Biotech Corporation Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 GenScript Biotech Corporation Main Business Overview
 - 13.4.5 GenScript Biotech Corporation Latest Developments
- 13.5 Aldevro
 - 13.5.1 Aldevro Company Information
 - 13.5.2 Aldevro Cas12a Protein Product Portfolios and Specifications
 - 13.5.3 Aldevro Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Aldevro Main Business Overview
 - 13.5.5 Aldevro Latest Developments
- 13.6 Merck KGaA
 - 13.6.1 Merck KGaA Company Information
 - 13.6.2 Merck KGaA Cas12a Protein Product Portfolios and Specifications
 - 13.6.3 Merck KGaA Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Merck KGaA Main Business Overview
 - 13.6.5 Merck KGaA Latest Developments
- 13.7 Takara Bio Inc.
 - 13.7.1 Takara Bio Inc. Company Information
 - 13.7.2 Takara Bio Inc. Cas12a Protein Product Portfolios and Specifications
 - 13.7.3 Takara Bio Inc. Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Takara Bio Inc. Main Business Overview

13.7.5 Takara Bio Inc. Latest Developments

13.8 Synthego

13.8.1 Synthego Company Information

13.8.2 Synthego Cas12a Protein Product Portfolios and Specifications

13.8.3 Synthego Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Synthego Main Business Overview

13.8.5 Synthego Latest Developments

13.9 Revvity

13.9.1 Revvity Company Information

13.9.2 Revvity Cas12a Protein Product Portfolios and Specifications

13.9.3 Revvity Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Revvity Main Business Overview

13.9.5 Revvity Latest Developments

13.10 Horizon Discovery

13.10.1 Horizon Discovery Company Information

13.10.2 Horizon Discovery Cas12a Protein Product Portfolios and Specifications

13.10.3 Horizon Discovery Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Horizon Discovery Main Business Overview

13.10.5 Horizon Discovery Latest Developments

13.11 Sino Biological

13.11.1 Sino Biological Company Information

13.11.2 Sino Biological Cas12a Protein Product Portfolios and Specifications

13.11.3 Sino Biological Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Sino Biological Main Business Overview

13.11.5 Sino Biological Latest Developments

13.12 OriGene Technologies

13.12.1 OriGene Technologies Company Information

13.12.2 OriGene Technologies Cas12a Protein Product Portfolios and Specifications

13.12.3 OriGene Technologies Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 OriGene Technologies Main Business Overview

13.12.5 OriGene Technologies Latest Developments

13.13 Biomatik

13.13.1 Biomatik Company Information

13.13.2 Biomatik Cas12a Protein Product Portfolios and Specifications

13.13.3 Biomatik Cas12a Protein Sales, Revenue, Price and Gross Margin

(2021-2026)

13.13.4 Biomatik Main Business Overview

13.13.5 Biomatik Latest Developments

13.14 ABclonal Technology

13.14.1 ABclonal Technology Company Information

13.14.2 ABclonal Technology Cas12a Protein Product Portfolios and Specifications

13.14.3 ABclonal Technology Cas12a Protein Sales, Revenue, Price and Gross

Margin (2021-2026)

13.14.4 ABclonal Technology Main Business Overview

13.14.5 ABclonal Technology Latest Developments

13.15 Creative Biolabs

13.15.1 Creative Biolabs Company Information

13.15.2 Creative Biolabs Cas12a Protein Product Portfolios and Specifications

13.15.3 Creative Biolabs Cas12a Protein Sales, Revenue, Price and Gross Margin

(2021-2026)

13.15.4 Creative Biolabs Main Business Overview

13.15.5 Creative Biolabs Latest Developments

13.16 Azenta Life Sciences

13.16.1 Azenta Life Sciences Company Information

13.16.2 Azenta Life Sciences Cas12a Protein Product Portfolios and Specifications

13.16.3 Azenta Life Sciences Cas12a Protein Sales, Revenue, Price and Gross

Margin (2021-2026)

13.16.4 Azenta Life Sciences Main Business Overview

13.16.5 Azenta Life Sciences Latest Developments

13.17 Twist Bioscience

13.17.1 Twist Bioscience Company Information

13.17.2 Twist Bioscience Cas12a Protein Product Portfolios and Specifications

13.17.3 Twist Bioscience Cas12a Protein Sales, Revenue, Price and Gross Margin

(2021-2026)

13.17.4 Twist Bioscience Main Business Overview

13.17.5 Twist Bioscience Latest Developments

13.18 Sangon Biotec

13.18.1 Sangon Biotec Company Information

13.18.2 Sangon Biotec Cas12a Protein Product Portfolios and Specifications

13.18.3 Sangon Biotec Cas12a Protein Sales, Revenue, Price and Gross Margin

(2021-2026)

13.18.4 Sangon Biotec Main Business Overview

13.18.5 Sangon Biotec Latest Developments

13.19 Promega Corporation

- 13.19.1 Promega Corporation Company Information
- 13.19.2 Promega Corporation Cas12a Protein Product Portfolios and Specifications
- 13.19.3 Promega Corporation Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.19.4 Promega Corporation Main Business Overview
- 13.19.5 Promega Corporation Latest Developments
- 13.20 Bio-Rad Laboratories
 - 13.20.1 Bio-Rad Laboratories Company Information
 - 13.20.2 Bio-Rad Laboratories Cas12a Protein Product Portfolios and Specifications
 - 13.20.3 Bio-Rad Laboratories Cas12a Protein Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.20.4 Bio-Rad Laboratories Main Business Overview
 - 13.20.5 Bio-Rad Laboratories Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Cas12a Protein Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Cas12a Protein Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Purified Cas12a Protein

Table 4. Major Players of Cas12a RNP Complex

Table 5. Major Players of Cas12a Expression System

Table 6. Global Cas12a Protein Sales by Product Format (2021-2026) & (mg)

Table 7. Global Cas12a Protein Sales Market Share by Product Format (2021-2026)

Table 8. Global Cas12a Protein Revenue by Product Format (2021-2026) & (\$ million)

Table 9. Global Cas12a Protein Revenue Market Share by Product Format (2021-2026)

Table 10. Global Cas12a Protein Sale Price by Product Format (2021-2026) & (US\$/mg)

Table 11. Major Players of High-Fidelity Cas12a

Table 12. Major Players of High-Activity Cas12a

Table 13. Major Players of Temperature-Tolerant Cas12a

Table 14. Major Players of Engineered Variant Cas12a

Table 15. Global Cas12a Protein Sales by Enzyme Performance Parameters (2021-2026) & (mg)

Table 16. Global Cas12a Protein Sales Market Share by Enzyme Performance Parameters (2021-2026)

Table 17. Global Cas12a Protein Revenue by Enzyme Performance Parameters (2021-2026) & (\$ million)

Table 18. Global Cas12a Protein Revenue Market Share by Enzyme Performance Parameters (2021-2026)

Table 19. Global Cas12a Protein Sale Price by Enzyme Performance Parameters (2021-2026) & (US\$/mg)

Table 20. Major Players of Large-scale enzyme supply for industrial use

Table 21. Major Players of Kit-Based Product

Table 22. Major Players of Custom-Modified Cas12a

Table 23. Global Cas12a Protein Sales by Commercial Supply Form (2021-2026) & (mg)

Table 24. Global Cas12a Protein Sales Market Share by Commercial Supply Form (2021-2026)

Table 25. Global Cas12a Protein Revenue by Commercial Supply Form (2021-2026) &

(\$ million)

Table 26. Global Cas12a Protein Revenue Market Share by Commercial Supply Form (2021-2026)

Table 27. Global Cas12a Protein Sale Price by Commercial Supply Form (2021-2026) & (US\$/mg)

Table 28. Global Cas12a Protein Sale by Application (2021-2026) & (mg)

Table 29. Global Cas12a Protein Sale Market Share by Application (2021-2026)

Table 30. Global Cas12a Protein Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Cas12a Protein Revenue Market Share by Application (2021-2026)

Table 32. Global Cas12a Protein Sale Price by Application (2021-2026) & (US\$/mg)

Table 33. Global Cas12a Protein Sales by Company (2021-2026) & (mg)

Table 34. Global Cas12a Protein Sales Market Share by Company (2021-2026)

Table 35. Global Cas12a Protein Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Cas12a Protein Revenue Market Share by Company (2021-2026)

Table 37. Global Cas12a Protein Sale Price by Company (2021-2026) & (US\$/mg)

Table 38. Key Manufacturers Cas12a Protein Producing Area Distribution and Sales Area

Table 39. Players Cas12a Protein Products Offered

Table 40. Cas12a Protein Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Cas12a Protein Sales by Geographic Region (2021-2026) & (mg)

Table 44. Global Cas12a Protein Sales Market Share Geographic Region (2021-2026)

Table 45. Global Cas12a Protein Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Cas12a Protein Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Cas12a Protein Sales by Country/Region (2021-2026) & (mg)

Table 48. Global Cas12a Protein Sales Market Share by Country/Region (2021-2026)

Table 49. Global Cas12a Protein Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Cas12a Protein Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Cas12a Protein Sales by Country (2021-2026) & (mg)

Table 52. Americas Cas12a Protein Sales Market Share by Country (2021-2026)

Table 53. Americas Cas12a Protein Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Cas12a Protein Sales by Product Format (2021-2026) & (mg)

Table 55. Americas Cas12a Protein Sales by Application (2021-2026) & (mg)

Table 56. APAC Cas12a Protein Sales by Region (2021-2026) & (mg)

Table 57. APAC Cas12a Protein Sales Market Share by Region (2021-2026)
Table 58. APAC Cas12a Protein Revenue by Region (2021-2026) & (\$ millions)
Table 59. APAC Cas12a Protein Sales by Product Format (2021-2026) & (mg)
Table 60. APAC Cas12a Protein Sales by Application (2021-2026) & (mg)
Table 61. Europe Cas12a Protein Sales by Country (2021-2026) & (mg)
Table 62. Europe Cas12a Protein Revenue by Country (2021-2026) & (\$ millions)
Table 63. Europe Cas12a Protein Sales by Product Format (2021-2026) & (mg)
Table 64. Europe Cas12a Protein Sales by Application (2021-2026) & (mg)
Table 65. Middle East & Africa Cas12a Protein Sales by Country (2021-2026) & (mg)
Table 66. Middle East & Africa Cas12a Protein Revenue Market Share by Country (2021-2026)
Table 67. Middle East & Africa Cas12a Protein Sales by Product Format (2021-2026) & (mg)
Table 68. Middle East & Africa Cas12a Protein Sales by Application (2021-2026) & (mg)
Table 69. Key Market Drivers & Growth Opportunities of Cas12a Protein
Table 70. Key Market Challenges & Risks of Cas12a Protein
Table 71. Key Industry Trends of Cas12a Protein
Table 72. Cas12a Protein Raw Material
Table 73. Key Suppliers of Raw Materials
Table 74. Cas12a Protein Distributors List
Table 75. Cas12a Protein Customer List
Table 76. Global Cas12a Protein Sales Forecast by Region (2027-2032) & (mg)
Table 77. Global Cas12a Protein Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Americas Cas12a Protein Sales Forecast by Country (2027-2032) & (mg)
Table 79. Americas Cas12a Protein Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. APAC Cas12a Protein Sales Forecast by Region (2027-2032) & (mg)
Table 81. APAC Cas12a Protein Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Europe Cas12a Protein Sales Forecast by Country (2027-2032) & (mg)
Table 83. Europe Cas12a Protein Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Middle East & Africa Cas12a Protein Sales Forecast by Country (2027-2032) & (mg)
Table 85. Middle East & Africa Cas12a Protein Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Global Cas12a Protein Sales Forecast by Product Format (2027-2032) & (mg)
Table 87. Global Cas12a Protein Revenue Forecast by Product Format (2027-2032) &

(\$ millions)

Table 88. Global Cas12a Protein Sales Forecast by Application (2027-2032) & (mg)

Table 89. Global Cas12a Protein Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Integrated DNA Technologies Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 91. Integrated DNA Technologies Cas12a Protein Product Portfolios and Specifications

Table 92. Integrated DNA Technologies Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 93. Integrated DNA Technologies Main Business

Table 94. Integrated DNA Technologies Latest Developments

Table 95. Thermo Fisher Scientific Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 96. Thermo Fisher Scientific Cas12a Protein Product Portfolios and Specifications

Table 97. Thermo Fisher Scientific Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 98. Thermo Fisher Scientific Main Business

Table 99. Thermo Fisher Scientific Latest Developments

Table 100. New England Biolabs Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 101. New England Biolabs Cas12a Protein Product Portfolios and Specifications

Table 102. New England Biolabs Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 103. New England Biolabs Main Business

Table 104. New England Biolabs Latest Developments

Table 105. GenScript Biotech Corporation Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 106. GenScript Biotech Corporation Cas12a Protein Product Portfolios and Specifications

Table 107. GenScript Biotech Corporation Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 108. GenScript Biotech Corporation Main Business

Table 109. GenScript Biotech Corporation Latest Developments

Table 110. Aldevro Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 111. Aldevro Cas12a Protein Product Portfolios and Specifications

Table 112. Aldevro Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 113. Aldevro Main Business

Table 114. Aldevro Latest Developments

Table 115. Merck KGaA Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 116. Merck KGaA Cas12a Protein Product Portfolios and Specifications

Table 117. Merck KGaA Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 118. Merck KGaA Main Business

Table 119. Merck KGaA Latest Developments

Table 120. Takara Bio Inc. Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 121. Takara Bio Inc. Cas12a Protein Product Portfolios and Specifications

Table 122. Takara Bio Inc. Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 123. Takara Bio Inc. Main Business

Table 124. Takara Bio Inc. Latest Developments

Table 125. Synthego Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 126. Synthego Cas12a Protein Product Portfolios and Specifications

Table 127. Synthego Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 128. Synthego Main Business

Table 129. Synthego Latest Developments

Table 130. Revvity Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 131. Revvity Cas12a Protein Product Portfolios and Specifications

Table 132. Revvity Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 133. Revvity Main Business

Table 134. Revvity Latest Developments

Table 135. Horizon Discovery Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 136. Horizon Discovery Cas12a Protein Product Portfolios and Specifications

Table 137. Horizon Discovery Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)

Table 138. Horizon Discovery Main Business

Table 139. Horizon Discovery Latest Developments

Table 140. Sino Biological Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors

Table 141. Sino Biological Cas12a Protein Product Portfolios and Specifications
Table 142. Sino Biological Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 143. Sino Biological Main Business
Table 144. Sino Biological Latest Developments
Table 145. OriGene Technologies Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 146. OriGene Technologies Cas12a Protein Product Portfolios and Specifications
Table 147. OriGene Technologies Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 148. OriGene Technologies Main Business
Table 149. OriGene Technologies Latest Developments
Table 150. Biomatik Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 151. Biomatik Cas12a Protein Product Portfolios and Specifications
Table 152. Biomatik Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 153. Biomatik Main Business
Table 154. Biomatik Latest Developments
Table 155. ABclonal Technology Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 156. ABclonal Technology Cas12a Protein Product Portfolios and Specifications
Table 157. ABclonal Technology Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 158. ABclonal Technology Main Business
Table 159. ABclonal Technology Latest Developments
Table 160. Creative Biolabs Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 161. Creative Biolabs Cas12a Protein Product Portfolios and Specifications
Table 162. Creative Biolabs Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 163. Creative Biolabs Main Business
Table 164. Creative Biolabs Latest Developments
Table 165. Azenta Life Sciences Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 166. Azenta Life Sciences Cas12a Protein Product Portfolios and Specifications
Table 167. Azenta Life Sciences Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 168. Azenta Life Sciences Main Business

Table 169. Azenta Life Sciences Latest Developments
Table 170. Twist Bioscience Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 171. Twist Bioscience Cas12a Protein Product Portfolios and Specifications
Table 172. Twist Bioscience Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 173. Twist Bioscience Main Business
Table 174. Twist Bioscience Latest Developments
Table 175. Sangon Biotec Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 176. Sangon Biotec Cas12a Protein Product Portfolios and Specifications
Table 177. Sangon Biotec Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 178. Sangon Biotec Main Business
Table 179. Sangon Biotec Latest Developments
Table 180. Promega Corporation Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 181. Promega Corporation Cas12a Protein Product Portfolios and Specifications
Table 182. Promega Corporation Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 183. Promega Corporation Main Business
Table 184. Promega Corporation Latest Developments
Table 185. Bio-Rad Laboratories Basic Information, Cas12a Protein Manufacturing Base, Sales Area and Its Competitors
Table 186. Bio-Rad Laboratories Cas12a Protein Product Portfolios and Specifications
Table 187. Bio-Rad Laboratories Cas12a Protein Sales (mg), Revenue (\$ Million), Price (US\$/mg) and Gross Margin (2021-2026)
Table 188. Bio-Rad Laboratories Main Business
Table 189. Bio-Rad Laboratories Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Cas12a Protein
- Figure 2. Cas12a Protein Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Cas12a Protein Sales Growth Rate 2021-2032 (mg)
- Figure 7. Global Cas12a Protein Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Cas12a Protein Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Cas12a Protein Sales Market Share by Country/Region (2025)
- Figure 10. Cas12a Protein Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Purified Cas12a Protein
- Figure 12. Product Picture of Cas12a RNP Complex
- Figure 13. Product Picture of Cas12a Expression System
- Figure 14. Global Cas12a Protein Sales Market Share by Product Format in 2026
- Figure 15. Global Cas12a Protein Revenue Market Share by Product Format (2021-2026)
- Figure 16. Product Picture of High-Fidelity Cas12a
- Figure 17. Product Picture of High-Activity Cas12a
- Figure 18. Product Picture of Temperature-Tolerant Cas12a
- Figure 19. Product Picture of Engineered Variant Cas12a
- Figure 20. Global Cas12a Protein Sales Market Share by Enzyme Performance Parameters in 2026
- Figure 21. Global Cas12a Protein Revenue Market Share by Enzyme Performance Parameters (2021-2026)
- Figure 22. Product Picture of Large-scale enzyme supply for industrial use
- Figure 23. Product Picture of Kit-Based Product
- Figure 24. Product Picture of Custom-Modified Cas12a
- Figure 25. Global Cas12a Protein Sales Market Share by Commercial Supply Form in 2026
- Figure 26. Global Cas12a Protein Revenue Market Share by Commercial Supply Form (2021-2026)
- Figure 27. Cas12a Protein Consumed in Biomedical Research
- Figure 28. Global Cas12a Protein Market: Biomedical Research (2021-2026) & (mg)
- Figure 29. Cas12a Protein Consumed in Gene Editing & Cell Engineering

Figure 30. Global Cas12a Protein Market: Gene Editing & Cell Engineering (2021-2026) & (mg)

Figure 31. Cas12a Protein Consumed in Agricultural

Figure 32. Global Cas12a Protein Market: Agricultural (2021-2026) & (mg)

Figure 33. Cas12a Protein Consumed in Industrial

Figure 34. Global Cas12a Protein Market: Industrial (2021-2026) & (mg)

Figure 35. Cas12a Protein Consumed in Others

Figure 36. Global Cas12a Protein Market: Others (2021-2026) & (mg)

Figure 37. Global Cas12a Protein Sale Market Share by Application (2025)

Figure 38. Global Cas12a Protein Revenue Market Share by Application in 2025

Figure 39. Cas12a Protein Sales by Company in 2025 (mg)

Figure 40. Global Cas12a Protein Sales Market Share by Company in 2025

Figure 41. Cas12a Protein Revenue by Company in 2025 (\$ millions)

Figure 42. Global Cas12a Protein Revenue Market Share by Company in 2025

Figure 43. Global Cas12a Protein Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global Cas12a Protein Revenue Market Share by Geographic Region in 2025

Figure 45. Americas Cas12a Protein Sales 2021-2026 (mg)

Figure 46. Americas Cas12a Protein Revenue 2021-2026 (\$ millions)

Figure 47. APAC Cas12a Protein Sales 2021-2026 (mg)

Figure 48. APAC Cas12a Protein Revenue 2021-2026 (\$ millions)

Figure 49. Europe Cas12a Protein Sales 2021-2026 (mg)

Figure 50. Europe Cas12a Protein Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Cas12a Protein Sales 2021-2026 (mg)

Figure 52. Middle East & Africa Cas12a Protein Revenue 2021-2026 (\$ millions)

Figure 53. Americas Cas12a Protein Sales Market Share by Country in 2025

Figure 54. Americas Cas12a Protein Revenue Market Share by Country (2021-2026)

Figure 55. Americas Cas12a Protein Sales Market Share by Product Format (2021-2026)

Figure 56. Americas Cas12a Protein Sales Market Share by Application (2021-2026)

Figure 57. United States Cas12a Protein Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Cas12a Protein Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Cas12a Protein Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Cas12a Protein Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Cas12a Protein Sales Market Share by Region in 2025

Figure 62. APAC Cas12a Protein Revenue Market Share by Region (2021-2026)

Figure 63. APAC Cas12a Protein Sales Market Share by Product Format (2021-2026)

Figure 64. APAC Cas12a Protein Sales Market Share by Application (2021-2026)

- Figure 65. China Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Japan Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 67. South Korea Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Southeast Asia Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 69. India Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Australia Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 71. China Taiwan Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Europe Cas12a Protein Sales Market Share by Country in 2025
- Figure 73. Europe Cas12a Protein Revenue Market Share by Country (2021-2026)
- Figure 74. Europe Cas12a Protein Sales Market Share by Product Format (2021-2026)
- Figure 75. Europe Cas12a Protein Sales Market Share by Application (2021-2026)
- Figure 76. Germany Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 77. France Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 78. UK Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Italy Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Russia Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Middle East & Africa Cas12a Protein Sales Market Share by Country (2021-2026)
- Figure 82. Middle East & Africa Cas12a Protein Sales Market Share by Product Format (2021-2026)
- Figure 83. Middle East & Africa Cas12a Protein Sales Market Share by Application (2021-2026)
- Figure 84. Egypt Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 85. South Africa Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Israel Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Turkey Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 88. GCC Countries Cas12a Protein Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Manufacturing Cost Structure Analysis of Cas12a Protein in 2026
- Figure 90. Manufacturing Process Analysis of Cas12a Protein
- Figure 91. Industry Chain Structure of Cas12a Protein
- Figure 92. Channels of Distribution
- Figure 93. Global Cas12a Protein Sales Market Forecast by Region (2027-2032)
- Figure 94. Global Cas12a Protein Revenue Market Share Forecast by Region (2027-2032)
- Figure 95. Global Cas12a Protein Sales Market Share Forecast by Product Format (2027-2032)
- Figure 96. Global Cas12a Protein Revenue Market Share Forecast by Product Format (2027-2032)
- Figure 97. Global Cas12a Protein Sales Market Share Forecast by Application

(2027-2032)

Figure 98. Global Cas12a Protein Revenue Market Share Forecast by Application

(2027-2032)

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