

# **Global Cell-free Protein Expression Market Size study & Forecast, by Product (Expression Systems, Reagent), by Application (Enzyme Engineering, High Throughput Production, Protein Labeling, Protein-Protein Interaction, Protein Purification), by End-Use (Pharmaceutical and Biotechnology Companies, Academic and Research Institutes, Others) and Regional Analysis, 2022-2029**

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## **Abstracts**

Global Cell-free Protein Expression Market is valued at approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2022-2029. Cell-free protein expression is also known as in vitro protein expression or in vitro translation. This method allows scientists to manufacture recombinant proteins in cell lysate solution and express small quantities of functional proteins. The increasing incidences of cancer and various infectious diseases, rising inclination towards cost-effective and rapid protein expression methods, and surging demand for novel biologic products are the leading growth factors for the market, which are bolstering the market demand across the globe.

According to the National Cancer Institute, the number of cancer patients is anticipated to constantly rise and is likely to reach 29.5 million cases by the year 2040 from 18.1 million cases, in the year 2018. Thereby, the rising prevalence of cancer is propelling the demand for Cell-free Protein Expression, which is augmenting the market growth over the forthcoming years. The increasing R&D investment in the fields of proteomics and genomics, as well as the rising development of high-yield protein expression systems, are the key opportunities for the growth of the Global Cell-free Protein

Expression Market. However, the dearth of effective systems for post-translational modifications and the high cost of protein expression systems is hampering market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Cell-free Protein Expression Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America dominated the space in terms of revenue, owing to the growing investments and funding in drug discovery research and the presence of well-established market players. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising incidence of diseases such as cancer, an increase in the number of collaborations and geographic expansion of key players.

Major market players included in this report are:

Thermo Fisher Scientific, Inc.

Takara Bio Company

Merck KGaA

New England Biolabs

Promega Corporation

Jena Bioscience GmbH

GeneCopoeia, Inc.

Biotechrabbit GmbH

Cube Biotech GmbH

CellFree Sciences Co., Ltd.

Recent Developments in the Market:

In January 2022, Exelead a biopharmaceutical CDMO was acquired by Merck KGaA for approximately USD 780 million. Merck KGaA aims to offer comprehensive end-to-end services across mRNA value chain.

In January 2022, Thermo Fisher Scientific Inc. acquired PeproTech for approximately USD 1.85 billion. The objective of this acquisition is to provide significant benefits through an integrated offering PeproTech's recombinant proteins portfolio.

In April 2021 Promega broadcasted the establishment of a newly constructed Kornberg Center- an R&D facility on its Fitchburg, WI campus. The aim of this initiative is to offer essential technology and product development in cellular, molecular biology and genetic identity.

Global Cell-free Protein Expression Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Product, Application, End-Use, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Expression Systems

Reagent

By Application:

Enzyme Engineering

High Throughput Production

Protein Labeling

Protein-Protein Interaction

Protein Purification

By End-Use:

Pharmaceutical and Biotechnology Companies

Academic and Research Institutes

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain  
Italy  
ROE  
Asia Pacific  
China  
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Rest of the World

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