

Global Prokaryotic Expression System Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Prokaryotic Expression System market size was valued at US\$ 511 million in 2024 and is forecast to a readjusted size of USD 725 million by 2031 with a CAGR of 5.2% during review period.

The prokaryotic system allows one to obtain large quantities of recombinant proteins in a short time. A simple and inexpensive bacterial cell culture and well-known mechanisms of transcription and translation facilitate the use of these microorganisms. For overproduction of recombinant proteins both eukaryotic and prokaryotic expression systems are used. Choosing the right system depends, among other things, on the growth rate and culture of host cells, level of the target gene expression and posttranslational processing of the synthesized protein. Regardless of the type of expression system, its basic elements are the vector and the expression host. The most widely used system for protein overproduction, both on a laboratory and industrial scale, is the prokaryotic system. This system is based primarily on the bacteria *E. coli*, although increasingly often *Bacillus* species are used. The prokaryotic system allows one to obtain large quantities of recombinant proteins in a short time. A simple and inexpensive bacterial cell culture and well-known mechanisms of transcription and translation facilitate the use of these microorganisms. The simplicity of genetic modifications and the availability of many bacterial mutants are additional advantages of the prokaryotic system. In this article we characterize the structural elements of prokaryotic expression vectors. Also strategies for preparation of the target protein gene that increase productivity, facilitate detection and purification of recombinant protein and provide its activity are discussed. Bacterial strains often used as host cells in expression systems as well as the potential location of heterologous proteins are characterized. Knowledge of the basic elements of the prokaryotic

expression system allows for production of biologically active proteins in a short time and in satisfactory quantities.

The global prokaryotic expression system market refers to the market for systems and tools used for the expression of proteins in prokaryotic organisms, such as bacteria. Prokaryotic expression systems are widely used in biotechnology and pharmaceutical research for the production of recombinant proteins. The market is driven by several factors. Firstly, the increasing demand for recombinant proteins for research, diagnostics, and therapeutics drives the demand for prokaryotic expression systems. These systems allow for the efficient production of proteins in large quantities, which is essential for various applications in the life sciences. Secondly, the advancements in genetic engineering technologies have led to the development of improved prokaryotic expression systems. These systems enable the expression of complex proteins and facilitate the incorporation of post-translational modifications, enhancing the functionality of the produced proteins. Additionally, the growing investment in biotechnology and pharmaceutical research is fueling the demand for prokaryotic expression systems. Research organizations and pharmaceutical companies are actively engaged in discovering and developing new drugs and biological therapies that rely on recombinant proteins. Prokaryotic expression systems play a vital role in the production of these proteins. Furthermore, the increasing prevalence of chronic diseases, such as cancer and autoimmune disorders, has led to a rise in the demand for protein-based therapeutics. Prokaryotic expression systems offer a cost-effective and scalable solution for the production of these therapeutic proteins. Geographically, the market for prokaryotic expression systems is spread across regions such as North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. North America dominates the market due to the presence of a well-established biotechnology and pharmaceutical industry. Europe and Asia Pacific follow closely, with significant investments in research and development activities.

This report is a detailed and comprehensive analysis for global Prokaryotic Expression System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Prokaryotic Expression System market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Prokaryotic Expression System market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Prokaryotic Expression System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Prokaryotic Expression System market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Prokaryotic Expression System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Prokaryotic Expression System 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 Agilent Technologies, Inc., Bio-Rad Laboratories, Inc., QIAGEN, Promega Corporation., Thermo Fischer Scientific, Inc., Life Technologies Corporation., Takara Bio Inc., GenScript, New England Biolabs., OXFORD EXPRESSION TECHNOLOGIES LTD, etc.

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

Market segmentation

Prokaryotic Expression System market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fungi

Cell

Others

Market segment by Application

Biotech

Medicine

Laboratory

Others

Market segment by players, this report covers

Agilent Technologies, Inc.

Bio-Rad Laboratories, Inc.

QIAGEN

Promega Corporation.

Thermo Fischer Scientific, Inc.

Life Technologies Corporation.

Takara Bio Inc.

GenScript

New England Biolabs.

OXFORD EXPRESSION TECHNOLOGIES LTD

LifeSensors, Proteogenix

Synthetic Genomics Inc.

Peak Proteins Ltd

ProMab, Sino Biological Inc.

Lucigen

ARTES Biotechnology GmbH

Jena Bioscience GmbH

BIONEER CORPORATION

LenioBio.

Lonza.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Prokaryotic Expression System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Prokaryotic Expression System, with revenue, gross margin, and global market share of Prokaryotic Expression System from 2020 to 2025.

Chapter 3, the Prokaryotic Expression System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Prokaryotic Expression System market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Prokaryotic Expression System.

Chapter 13, to describe Prokaryotic Expression System research findings and conclusion.

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