

Asia Pacific Transient Protein Expression Market Forecast to 2031 - Regional Analysis - by Product Type (Instruments, Reagents, Expression Vectors, and Competent Cells), Application (Genomic Research, Gene Therapy, Bio production, Cancer Research, and Drug Development), and End User (Pharmaceutical and Biotechnology Companies, Academic and Research Institutes, and Clinical Research Organizations)

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Abstracts

The Asia Pacific transient protein expression market was valued at US\$ 181.05 million in 2023 and is expected to reach US\$ 294.26 million by 2031; it is estimated to register a CAGR of 6.3% from 2023 to 2031.

Plant-Based Expression Systems for Therapeutic Protein Production Boost Asia Pacific Transient Protein Expression Market

The use of microbial or mammalian cell-based expression systems has been a common practice in recombinant protein production processes; however, plant-based expression has been promoted as a cost-effective, scalable, safe, and sustainable alternative in recent years. The duration of protein synthesis has been greatly shortened and the yield of recombinant proteins in plants has improved thanks to the creation and advancement of transient expression methods. A shift in consumer preference toward plant-based products compels pharmaceutical and biopharmaceutical companies to focus on plant-based synthesis of therapeutic proteins. The use of plants has excellent potential for improving yields of proteins that can be administered for the prevention or treatment of

human and animal diseases. The use of therapeutic proteins is likely to surge in the healthcare sector in the coming years due to the ongoing restructuring of regulatory frameworks and growing awareness about transient protein expression in plants. Maximum scale-up possibility, low growth costs, complex protein production ability, low contamination (especially involving human pathogens) risks, and optimized growth conditions are among the key advantages associated with transient protein expression in plants. Moreover, plants are considered safer compared to other expression systems as they do not produce endotoxins and cause less harm to humans. Thus, plant-based expression systems for therapeutic protein expression are emerging as vital opportunities for the transient protein expression market growth during the forecast period.

Asia Pacific Transient Protein Expression Market Overview

The transient protein expression market in Asia Pacific is sub segmented into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. The market growth in this region is attributed to growing biotechnology industry across several countries in Asia Pacific, increasing software product launches, and increasing developments and improvements in transient protein expression systems.

Asia Pacific Transient Protein Expression Market Revenue and Forecast to 2031 (US\$ Million)

Asia Pacific Transient Protein Expression Market Segmentation

The Asia Pacific transient protein expression market is categorized into product type, application, end user, and country.

Based on product type, the Asia Pacific transient protein expression market is segmented into instruments, reagents, expression vectors, and competent cells. The instruments segment held the largest market share in 2023.

In terms of application, the Asia Pacific transient protein expression market is segmented into genomic research, gene therapy, bio production, cancer research, and drug development. The genomic research segment held the largest market share in 2023.

Based on end user, the Asia Pacific transient protein expression market is segmented into pharmaceutical and biotechnology companies, academic and research institutes,

and clinical research organizations. The pharmaceutical and biotechnology companies segment held the largest market share in 2023.

By country, the Asia Pacific transient protein expression market is segmented into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific transient protein expression market share in 2023.

Thermo Fisher Scientific Inc, Merck KGaA, QIAGEN NV, GenScript Biotech Corporation, Promega Corp, Takara Bio Inc, New England Biolabs, Agilent Technologies Inc, Mirus Bio LLC, Bio-Rad Laboratories Inc, Lonza Group AG, and MaxCyte Inc are some of the leading companies operating in the Asia Pacific transient protein expression market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the Asia Pacific transient protein expression market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the Asia Pacific transient protein expression market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth Asia Pacific market trends and outlook coupled with the factors driving the Asia Pacific transient protein expression market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - Asia Pacific Transient Protein Expression Market

Thermo Fisher Scientific Inc

Merck KGaA

QIAGEN NV

GenScript Biotech Corporation

Promega Corp

Takara Bio Inc

New England Biolabs

Agilent Technologies Inc

Mirus Bio LLC

Bio-Rad Laboratories Inc

Lonza Group AG

MaxCyte Inc

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