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Global Ligase Market 2023-2029

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Abstracts

Ligase is a type of enzyme that catalyzes the joining of two molecules, often referred to as ligating, by creating a chemical bond between them. Ligases play a vital role in several biological processes such as DNA replication, DNA repair, and protein synthesis. Ligases have significant applications in biotechnology, providing a powerful tool for molecular biology techniques such as PCR, Southern Blot, DNA sequencing, and genetic engineering. Ligases can be used to join DNA fragments, create gene fusions, or construct recombinant DNA molecules. Additionally, researchers are actively exploring the potential of ligase inhibitors for the treatment of diseases such as cancer, where inhibitors can suppress the activity of cancer cell growth signaling pathways. The global ligase market size is projected to grow by USD 139.5 million from 2023 to 2029, registering a CAGR of 5.05 percent, according to the latest market data.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global ligase market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the product, source, application, end user, and region. The global market for ligase can be segmented by product: T4 DNA ligase, T4 RNA ligase, E. coli DNA ligase, Pfu DNA ligase, Quick ligase, Tth DNA ligase, others. The T4 DNA ligase segment is estimated to account for the largest share of the global ligase market. Ligase market is further segmented by source: Escherichia coli, THERMUS thermophilus, archaebacterium, Pyrococcus furiosus, others. The Escherichia coli segment held the largest revenue share in 2022. Based on application, the ligase market is segmented into: molecular cloning, ligase chain reaction, next-generation sequencing (NGS), repeat expansion detection (RED), rolling circle amplification (RCA),

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proximity ligation assay (PLA), ligase detection reaction, ligation mediated PCR, mutation detection, others. Globally, the molecular cloning segment made up the largest share of the ligase market. On the basis of end user, the ligase market also can be divided into: research institutions, pharmaceutical, diagnostic laboratories, others. The research institutions segment was the largest contributor to the global ligase market in 2022. Ligase market by region is categorized into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America.

Market Segmentation
By product: T4 DNA ligase, T4 RNA ligase, E. coli DNA ligase, Pfu DNA ligase, Quick ligase, Tth DNA ligase, others
By source: Escherichia coli, THERMUS thermophilus, archaebacterium, Pyrococcus furiosus, others
By application: molecular cloning, ligase chain reaction, next-generation sequencing (NGS), repeat expansion detection (RED), rolling circle amplification (RCA), proximity ligation assay (PLA), ligase detection reaction, ligation mediated PCR, mutation detection, others
By end user: research institutions, pharmaceutical, diagnostic laboratories, others
By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report has also analysed the competitive landscape of the global ligase market with some of the key players being Agilent Technologies, Inc., F. Hoffmann-La Roche Ltd., New England Biolabs, Inc., Promega Corporation, Qiagen N.V., Thermo Fisher Scientific, Inc., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.
*REQUEST FREE SAMPLE TO GET A COMPLETE LIST OF COMPANIES

Scope of the Report
To analyze and forecast the market size of the global ligase market.
To classify and forecast the global ligase market based on product, source, application, end user, region.
To identify drivers and challenges for the global ligase market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global ligase market.
To identify and analyze the profile of leading players operating in the global ligase market.

Why Choose This Report

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Gain a reliable outlook of the global ligase market forecasts from 2023 to 2029 across scenarios.
Identify growth segments for investment.
Stay ahead of competitors through company profiles and market data.
The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.
Print authentication provided for the single-user license.

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T4 DNA ligase
T4 RNA ligase
E. coli DNA ligase
Pfu DNA ligase
Quick ligase
Tth DNA ligase
Others

PART 6. MARKET BREAKDOWN BY SOURCE

Escherichia coli
THERMUS thermophilus
Archaebacterium
Pyrococcus furiosus
Others

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PART 7. MARKET BREAKDOWN BY APPLICATION

Molecular cloning
Ligase chain reaction
Next-generation sequencing (NGS)
Repeat expansion detection (RED)
Rolling circle amplification (RCA)
Proximity ligation assay (PLA)
Ligase detection reaction
Ligation mediated PCR
Mutation detection
Others

PART 8. MARKET BREAKDOWN BY END USER

Research institutions
Pharmaceutical
Diagnostic laboratories
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North America
Europe
Asia-Pacific
MEA (Middle East and Africa)
Latin America

PART 10. KEY COMPANIES

Agilent Technologies, Inc.
F. Hoffmann-La Roche Ltd.
New England Biolabs, Inc.
Promega Corporation
Qiagen N.V.
Thermo Fisher Scientific, Inc.

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