

# **Global Nucleic Acid Labeling Market Size study, By Product (Products (Labels, Radioactive, Non-Radioactive, Probes), Services), By Labeling Technique (PCR, Nick Translation, Random Primer, In Vitro Transcription, Reverse Transcription, End Labeling), By Application (DNA Sequencing, PCR, FISH, Microarray, In Situ Hybridization, Blotting, Other Application), and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Nucleic Acid Labeling Market is valued approximately USD 2.10 Billion in 2021 and is anticipated to grow with a healthy growth rate of more than 8.65% over the forecast period 2022-2028.

Nucleic acid is a significant class of macromolecules that is found in every cell and virus. These are biomolecules that transfer genetic information in all living organisms. Nucleic acid labeling can be performed by using procedures such as the integration of biotins, enzymes, and fluorescent tags. This technique has a wide range of applications in the life sciences industry and is highly used to identify RNA, DNA, and proteins by the usage of various labeling techniques. The growing healthcare expenditures, rising applications of nucleic acid labeling in disease diagnosis, increase in R&D expenditure, increasing incidence of genetic disorders such as albinism, congenital adrenal hyperplasia, down syndrome, and many others, coupled with the growth of the genomics research sector are the primary factors that are surging the market demand across the globe. For instance, as per the Down's syndrome Education (DSE) International, the prevalence of Down's syndrome ranges from 1 in 400 to 1 in 1,500 babies born in varied countries. It also stated that nearly 220,000 babies are born with Down's syndrome globally every year. However, the lack of skilled professionals in

transcriptomics and the high cost and complexity associated with nucleic acid labeling impede the growth of the market over the forecast period of 2022-2028. Also, developments of tools for synthetic genome design and rising opportunities in emerging markets are anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global Nucleic Acid Labeling market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to the presence of advanced healthcare infrastructure facilities and high accessibility of novel diagnostic solutions owing to the presence of chief market players in the region. Whereas, Asia-Pacific is anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as the increase in the number of inter-regional collaborations, rising investments for genomic research, as well as the growth of emerging economies such as India and China would create lucrative growth prospects for the Nucleic Acid Labeling market across the Asia-Pacific region.

Major market players included in this report are:

Thermo Fisher Scientific, Inc.

New England Biolabs

PerkinElmer, Inc.

F. Hoffmann La-Roche AG

General Electric Company

Merck KGaA

Enzo Biochem

Promega Corporation

Vector Laboratories

Agilent Technologies Inc.

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 eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available 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

Products  
Labels  
Radioactive  
Non-Radioactive  
Probes  
Services  
By Labeling Technique  
PCR  
Nick Translation  
Random Primer  
In Vitro Transcription  
Reverse Transcription  
End Labeling  
By Application  
DNA Sequencing  
PCR  
FISH  
Microarray  
In Situ Hybridization  
Blotting  
Other Application  
By Region:  
North America  
U.S.  
Canada  
Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE  
  
Asia Pacific  
China  
India  
Japan  
Australia  
South Korea

RoAPAC  
Latin America  
Brazil  
Mexico  
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020  
Base year – 2021  
Forecast period – 2022 to 2028

Target Audience of the Global Nucleic Acid Labeling Market in Market Study:

Key Consulting Companies & Advisors  
Large, medium-sized, and small enterprises  
Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

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