

Global Primer and Probe Design Services Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7FD911ACC72EN.html>

Date: June 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: G7FD911ACC72EN

Abstracts

The global Primer and Probe Design Services market size is expected to reach \$ 204 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Primer and Probe Design Services refer to professional technical services that tailor-specific oligonucleotide primers and probes for nucleic acid detection/analysis experiments (e.g., PCR, qPCR, digital PCR, NGS) based on target nucleic acid sequences (DNA/RNA), experimental purposes, and platform requirements. These services prioritize design parameters such as target specificity, binding affinity, amplification efficiency, and cross-reactivity avoidance, leveraging bioinformatics tools and sequence databases to ensure the designed primers/probes meet experimental sensitivity, reproducibility, and accuracy needs in molecular biology research and clinical testing.

Driven by the booming development of precision medicine, infectious disease prevention, and agricultural biotechnology, the industry is witnessing trends including growing demand for high-specificity, multi-target design, integration of AI/machine learning to optimize design algorithms (reducing trial-and-error costs), and expansion into emerging fields like liquid biopsy and single-cell analysis; key opportunities lie in the rapid response to new pathogens (e.g., emerging viruses), personalized cancer diagnosis, and application in gene editing validation and environmental microbial monitoring; however, challenges persist, such as design difficulties for complex genomic regions (e.g., high GC content, repetitive sequences), compatibility requirements across diverse experimental platforms, and the need to balance specificity with cost-effectiveness, as well as issues related to intellectual property of proprietary design algorithms and standardization of design criteria.

This report studies the global Primer and Probe Design Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Primer and Probe Design Services, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Primer and Probe Design Services that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Primer and Probe Design Services total market, 2021-2032, (USD Million)

Global Primer and Probe Design Services total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Primer and Probe Design Services total market, key domestic companies, and share, (USD Million)

Global Primer and Probe Design Services revenue by player, revenue and market share 2021-2026, (USD Million)

Global Primer and Probe Design Services total market by Type, CAGR, 2021-2032, (USD Million)

Global Primer and Probe Design Services total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Primer and Probe Design Services 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 PrimerDigital, Applied Biological Materials, Microsynth, Shanghai TinyGen, Bioneer, CD Biosynthesis, Anhui General Biological Systems, Beijing Tsingke Biotechnology, GenePharma, Genscript, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Primer and Probe Design Services market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Primer and Probe Design Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Primer and Probe Design Services Market, Segmentation by Type:

qPCR-Based Primer and Probe Design Services

Digital PCR-Based Design Services

Others

Global Primer and Probe Design Services Market, Segmentation by Target Nucleic Acid Type:

DNA Target Design Services

RNA Target Design Services

Other

Global Primer and Probe Design Services Market, Segmentation by GC Content Range:

Low GC Content: Below 40%

Moderate GC Content: 40%–60%

High GC Content: Above 60%

Global Primer and Probe Design Services Market, Segmentation by Application:

Molecular Diagnostics

Cancer Research & Precision Oncology

Infectious Disease Detection

Others

Companies Profiled:

PrimerDigital

Applied Biological Materials

Microsynth

Shanghai TinyGen

Bioneer

CD Biosynthesis

Anhui General Biological Systems

Beijing Tsingke Biotechnology

GenePharma

Genscript

Suzhou SynbioTechnologies

Key Questions Answered

1. How big is the global Primer and Probe Design Services market?
2. What is the demand of the global Primer and Probe Design Services market?
3. What is the year over year growth of the global Primer and Probe Design Services market?
4. What is the total value of the global Primer and Probe Design Services market?
5. Who are the Major Players in the global Primer and Probe Design Services market?
6. What are the growth factors driving the market demand?

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