

Global mRNA Synthesis Kit Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global mRNA Synthesis Kit market size was valued at US\$ 1390 million in 2025 and is forecast to a readjusted size of US\$ 2184 million by 2032 with a CAGR of 6.6% during review period.

An mRNA Synthesis Kit is a laboratory reagent system used to produce messenger RNA (mRNA) in vitro. It typically contains templates, enzymes (such as RNA polymerase), nucleotides, and buffers required for the transcription process, enabling the synthesis, capping, and sometimes modification of mRNA for research, therapeutic development, or vaccine production. In 2025, global mRNA Synthesis Kit production reached approximately 730,100 units, with an average global market price of around US\$ 1,850 per unit. Annual production capacity is 812,000 units. Gross Profit Margin: 68%. The mRNA Synthesis Kit industry sits in the upstream segment of the broader mRNA therapeutics ecosystem. The supply chain starts from raw materials such as nucleotides, enzymes (e.g., T7 RNA polymerase), and DNA templates, which are produced by specialized biotech reagent manufacturers. These components are assembled into IVT (in vitro transcription) kits by core suppliers, then distributed to academic labs, biotech companies, and pharmaceutical firms. Downstream users apply these kits in vaccine development, cell therapy, and gene function research, often integrating them into larger workflows that may include mRNA purification, modification, and lipid nanoparticle (LNP) delivery systems. mRNA Synthesis Kits represent a high-value, structurally stable reagent segment rather than a high-growth consumer-like market. The key value lies in technological control of enzymatic systems and workflow integration rather than raw volume expansion. While demand is strongly driven by mRNA vaccines and cell therapy pipelines, the market remains concentrated among a few global suppliers due to technical barriers in enzyme engineering and capping

chemistry. Over time, competition is expected to shift from basic IVT kits toward integrated, GMP-grade, and high-efficiency mRNA production platforms.

This report is a detailed and comprehensive analysis for global mRNA Synthesis Kit market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Purity / Regulatory Grade 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 mRNA Synthesis Kit market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global mRNA Synthesis Kit market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global mRNA Synthesis Kit market size and forecasts, by Purity / Regulatory Grade and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global mRNA Synthesis Kit market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 mRNA Synthesis Kit
- 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 mRNA Synthesis Kit market based on the

following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, New England Biolabs (NEB), Promega Corporation, Merck KGaA, TriLink BioTechnologies, Integrated DNA Technologies, Takara Bio, Qiagen, GenScript Biotech, Zymo Research, etc.

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

Market Segmentation

mRNA Synthesis Kit market is split by Purity / Regulatory Grade and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Purity / Regulatory Grade, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Purity / Regulatory Grade

Research Grade

Preclinical Grade

Clinical Grade

GMP Grade

Market segment by Functional Type

IVT Kit

Capping Kit

Poly(A) Kit

Purification Kit

All-in-one Kit

Market segment by Yield Scale

Low-yield Kit (μg scale)

Medium-yield Kit (mg scale)

High-yield Kit (multi-mg to g scale)

Market segment by Application

Clinical

Research

Others

Major players covered

Thermo Fisher Scientific

New England Biolabs (NEB)

Promega Corporation

Merck KGaA

TriLink BioTechnologies

Integrated DNA Technologies

Takara Bio

Qiagen

GenScript Biotech

Zymo Research

Vazyme Biotech

Yeasen Biotechnology

TransGen Biotech

Biomiga

Magen

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe mRNA Synthesis Kit product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of mRNA Synthesis Kit, with price, sales quantity, revenue, and global market share of mRNA Synthesis Kit from 2021 to 2026.

Chapter 3, the mRNA Synthesis Kit competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the mRNA Synthesis Kit breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Purity / Regulatory Grade and by Application, with sales market share and growth rate by Purity / Regulatory Grade, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and mRNA Synthesis Kit market forecast, by regions, by Purity / Regulatory Grade, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of mRNA Synthesis Kit.

Chapter 14 and 15, to describe mRNA Synthesis Kit sales channel, distributors, customers, research findings and conclusion.

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