

Global Circular RNA Synthesis Service Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Circular RNA Synthesis Service market size was valued at US\$ 47.33 million in 2025 and is forecast to a readjusted size of US\$ 234 million by 2032 with a CAGR of 25.2% during review period.

Circular RNA synthesis services provide integrated technical support for the design, production, purification, and quality control of customized circular RNA molecules based on customer-defined or jointly optimized target sequences. The typical service workflow includes circular RNA sequence design, DNA template construction, in vitro transcription, RNA circularization, purification, analytical testing, and optional lipid nanoparticle formulation and clinical-grade manufacturing. Major circularization routes include PIE self-splicing, modified scarless PIE methods, and T4 RNA ligase-mediated enzymatic ligation. Deliverables include research-grade circular RNA samples, preclinical drug substance, process-development packages, and GMP clinical batches. Upstream inputs mainly include nucleotide triphosphates, modified nucleosides, DNA and plasmid templates, RNA polymerases, RNA ligases, ribozyme elements, nucleases, buffers, chromatography media, ultrafiltration consumables, single-use bioprocessing materials, analytical reagents, and lipid materials, while downstream customers primarily include RNA drug developers, vaccine companies, gene and cell therapy companies, pharmaceutical companies, universities, research institutions, and hospital research centers. The overall industry gross margin typically around 40%?60%.

The circular RNA synthesis services market is still dominated by research-grade and preclinical projects, although demand is shifting from basic sample preparation toward sequence optimization, circularization process development, impurity control, analytical method establishment, and clinical manufacturing. The early market was primarily

served by life-science tools and gene-synthesis companies supplying microgram- to milligram-scale customized samples. As circular RNA drugs, vaccines, and in vivo cell therapy programs advance, several integrated RNA service providers are developing gram-scale production, lipid nanoparticle formulation, and GMP-compliant manufacturing capabilities. Global supply is currently concentrated in China and the United States. Chinese providers have established broad capabilities in research services, sequence analysis, circularization process development, and integrated CRDMO support, while U.S.-based providers generally benefit from broader international customer coverage and established nucleic acid manufacturing infrastructure.

Future competition will shift from demonstrating basic circularization capability toward reliably delivering high-purity, translatable, low-immunogenicity products that meet regulatory requirements. Competitive differentiation will increasingly depend on scarless circularization, long-sequence compatibility, process robustness across different payloads, removal of double-stranded RNA and linear precursors, batch reproducibility, and biological potency testing. Research-grade projects will continue to account for a large number of orders, but most value growth is expected to come from preclinical process development, GMP manufacturing, analytical validation, and LNP formulation. Suppliers with integrated capabilities covering sequence design, template preparation, circularization, purification, analytics, and formulation will be better positioned to retain projects as they progress toward clinical development.

Market growth is being driven by the expanding development of circular RNA therapeutics, therapeutic vaccines, protein-expression therapies, in vivo CAR-T, and other gene and cell therapy applications. Compared with building an internal small-scale production platform, outsourcing to specialized providers gives developers access to validated circularization elements, process expertise, analytical methods, and scale-up equipment, helping reduce development risk and shorten timelines to animal studies and regulatory submissions. As projects move from discovery into preclinical and clinical stages, additional testing for purity, integrity, residual DNA, double-stranded RNA, endotoxin, sterility, and potency increases the value of individual service contracts. Continued interest from large pharmaceutical companies in next-generation RNA technologies may also support greater demand for platform collaboration and outsourced manufacturing.

The main barriers are the lack of harmonized technical standards and differences in how suppliers measure circularization rate, purity, integrity, and expression activity, which make direct service comparison difficult. Conventional PIE methods may

introduce residual sequences, sequence restrictions, and unwanted by-products, while ligase-based methods face challenges related to enzyme cost, terminal design, and scale-up. Circularization efficiency, purification recovery, and batch consistency for long RNA sequences still require improvement. Clinical-grade production also requires more stringent raw-material controls, validated analytical methods, and quality standards. In addition, the limited number of clinical-stage downstream programs results in low GMP capacity utilization, exposing suppliers to high capital requirements, uneven order flow, and project cancellation risks.

This report is a detailed and comprehensive analysis for global Circular RNA Synthesis Service market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type 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 Circular RNA Synthesis Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Circular RNA Synthesis Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Circular RNA Synthesis Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Circular RNA Synthesis Service market shares of main players, in revenue (\$ Million), 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 Circular RNA Synthesis Service

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 Circular RNA Synthesis Service 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 GenScript Biotech Corporation, VectorBuilder, Guangzhou Geneseed Biotech, uBriGene Biosciences, Yaohai Bio-Pharma, Creative Biogene, Creative Biolabs, BOC Sciences, etc.

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

Market segmentation

Circular RNA Synthesis Service market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Custom Synthesis

Process Development

Analytical and QC Services

Other

Market segment by Circularization Method

PIE Circularization

Enzymatic Ligation

Other

Market segment by Product Format

Naked circRNA

circRNA-LNP

Other

Market segment by Application

Pharmaceutical and Biotechnology Companies

CRO and CDMO Companies

Other

Market segment by players, this report covers

GenScript Biotech Corporation

VectorBuilder

Guangzhou Geneseed Biotech

uBriGene Biosciences

Yaohai Bio-Pharma

Creative Biogene

Creative Biolabs

BOC Sciences

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Circular RNA Synthesis Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Circular RNA Synthesis Service, with revenue, gross margin, and global market share of Circular RNA Synthesis Service from 2021 to 2026.

Chapter 3, the Circular RNA Synthesis Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Circular RNA Synthesis Service market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Circular RNA Synthesis Service.

Chapter 13, to describe Circular RNA Synthesis Service research findings and conclusion.

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