

Global Circular RNA Generation Technology Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Circular RNA Generation Technology market size is predicted to grow from US\$ 93.91 million in 2025 to US\$ 559 million in 2032; it is expected to grow at a CAGR of 28.8% from 2026 to 2032.

Circular RNA generation technology comprises the methods and process systems used to produce covalently closed circular RNA through sequence design, DNA template construction, in vitro transcription, ribozyme-mediated self-splicing, enzymatic ligation, intracellular splicing, or vector-mediated expression. A complete manufacturing workflow generally includes precursor RNA design, transcription, circularization, removal of residual linear RNA and double-stranded RNA impurities, chromatographic purification, concentration and buffer exchange, structural confirmation, purity testing, expression activity evaluation, and delivery formulation development. Upstream inputs mainly include nucleotide triphosphates, modified nucleosides, DNA and plasmid templates, RNA polymerases, T4 RNA ligases, ribozyme elements, nucleases, buffers, chromatography media, ultrafiltration consumables, single-use bioprocessing materials, analytical reagents, and lipid nanoparticle materials. Downstream customers include RNA drug developers, vaccine companies, gene and cell therapy companies, pharmaceutical companies, CRO/CDMO providers, research institutes, and hospital research centers. The industry's gross margin in 2025 is estimated at approximately 45%?65%.

The circular RNA generation technology market is currently transitioning from a research-tool market into an enabling infrastructure market for RNA drug development. Research-grade custom synthesis, vector construction, and circularization kits continue to represent the basic demand base, while faster growth is occurring in process development, impurity control, analytical method establishment, and GMP

manufacturing. Suppliers can generally be divided into three groups: therapeutic developers with proprietary circularization platforms, life-science companies providing research-grade synthesis and kits, and RNA CRO/CDMO companies capable of producing clinical-grade drug substance and formulated products. The United States and China are currently the most active supply regions. Chinese companies have established a relatively broad presence in custom synthesis, process services, and integrated manufacturing, while U.S. companies are more active in proprietary platforms, technology licensing, and therapeutic translation.

Future technology development will shift from maximizing circularization yield alone toward the combined optimization of product integrity, scarless ligation, sequence flexibility, long-transcript compatibility, and manufacturing reproducibility. Conventional PIE approaches have a relatively mature research foundation, but may introduce residual foreign sequences and constrain some sequence designs. Enzymatic ligation approaches can provide more flexible or scarless products, but impose greater requirements on terminal structure, splint design, and enzyme cost. New intact-intron self-splicing, nickless circularization, and integrated circularization-purification technologies are emerging and may reduce impurity burdens and downstream purification complexity. In vitro and intracellular generation routes are expected to coexist, with the former offering better manufacturing control and the latter supporting sustained expression in gene therapy and in vivo cell-reprogramming applications.

Market growth is being driven by the development of next-generation RNA drugs, therapeutic vaccines, in vivo cell therapies, protein-replacement therapies, and genetic medicines. Once circular RNA programs advance into clinical development, demand expands beyond basic RNA synthesis to include high-purity drug substance, residual linear RNA and double-stranded RNA testing, structural characterization, translation-efficiency testing, aseptic production, and regulatory documentation. This substantially increases the value of each project. Downstream developers are also increasingly outsourcing sequence design, template preparation, circularization, purification, analytics, and LNP formulation to integrated suppliers in order to reduce technology-transfer risks and accelerate regulatory submissions. Entry by large pharmaceutical companies and expansion by specialist CDMOs are expected to support more standardized technical and supply-chain practices.

The main barriers are the lack of harmonized evaluation standards across circularization methods and the fact that a high circularization rate does not necessarily result in high purity, strong expression, or low immunogenicity. Uncircularized precursors, mis-ligated products, residual linear RNA, double-stranded RNA, truncated

transcripts, and residual DNA can all affect safety and biological activity, placing substantial demands on purification and analytical methods. Long-sequence circularization, batch reproducibility, manufacturing scale-up, enzyme costs, and limited regulatory standards remain major industrialization challenges. The patent landscape is also complex, with overlapping claims covering PIE systems, ligase methods, translation elements, purification processes, and delivery technologies, creating uncertainty around freedom to operate and commercial licensing.

LPI (LP Information)' newest research report, the 'Circular RNA Generation Technology Industry Forecast' looks at past sales and reviews total world Circular RNA Generation Technology sales in 2025, providing a comprehensive analysis by region and market sector of projected Circular RNA Generation Technology sales for 2026 through 2032. With Circular RNA Generation Technology sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Circular RNA Generation Technology industry.

This Insight Report provides a comprehensive analysis of the global Circular RNA Generation Technology landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Circular RNA Generation Technology portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Circular RNA Generation Technology market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Circular RNA Generation Technology and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Circular RNA Generation Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Circular RNA Generation Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

In Vitro Generation

Intracellular Generation

Segmentation by Circularization Method:

Ribozyme-Mediated Circularization

Enzymatic Ligation

Other

Segmentation by Ribozyme Route:

Group I Intron-Based

Group II Intron-Based

Other

Segmentation by Application:

Pharmaceutical and Biotechnology Companies

CRO and CDMO Companies

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

GenScript Biotech Corporation

Guangzhou Geneseeed Biotech

uBriGene Biosciences

Yaohai Bio-Pharma

Creative Biogene

SBS Genetech

Orna Therapeutics

RiboX Therapeutics

Sail Biomedicines

Shanghai CirCode Biomed

Therorna

Circio Holding

Chimerna Therapeutics

Rznomics

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