

# **CircRNA Synthesis Market Size, Share & Trends Analysis Report By Product & Service (Reagents & Kits), By Application (Therapeutics Development), By End-use, By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

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### **CircRNA Synthesis Market Growth & Trends**

The global circRNA synthesis market size is anticipated to reach USD 442.5 million by 2030 and grow at a CAGR of 15.88% from 2025 to 2030 during the forecast period, according to a new report by Grand View Research, Inc. The circRNA synthesis industry is experiencing significant growth, driven by ongoing research and development efforts that highlight the therapeutic potential of circular RNAs. A recent comprehensive review published in Nature Reviews Genetics by CircRNA scientists underscores the unique properties of circRNAs, such as enhanced stability and superior immunological profiles, which make them promising candidates for various therapeutic applications, including infectious diseases, CAR-T therapy, and gene therapy. This publication not only emphasizes the current advancements in circRNA therapeutics but also identifies opportunities and challenges in the field, thereby encouraging further investment and exploration.

Strategic collaborations between companies are also propelling the market forward. For instance, in January 2024, Circio has partnered with 4basebio to develop and test synthetic circVec DNA vectors for genetic medicine and vaccines. This partnership aims to combine Circio's circVec circular RNA expression system with 4basebio's proprietary synthetic DNA formats and unique nanoparticle delivery platform,

Hermes, t%li%create a powerful therapeutic combination. Such alliances are instrumental in advancing the development of durable, repeat-dosable, non-viral platforms for future synthetic DNA gene therapies.

Innovations in circRNA production technologies are further driving market expansion. For instance, in August 2024, Abogen Biosciences, has announced the development of a highly efficient RNA circularization cis-splicing system, referred t%li%as the Cis-System, which enables the production of circular RNA. This proprietary system not only holds global intellectual property rights but als%li%offers improvements over existing methods, potentially enhancing the efficiency and scalability of circRNA production. Such technological advancements are crucial for the broader application of circRNA in therapeutics and vaccines, thereby fueling market growth.

### CircRNA Synthesis Market Report Highlights

The reagents and kits segment captured the largest revenue share of 47.29% in 2024. The increasing adoption of circRNA technologies in research and therapeutic development. Researchers require high-quality reagents and kits for efficient circularization processes, vector construction, and purification t%li%produce stable and functional circRNAs.

In 2024, therapeutics development dominated the market with the largest revenue share, driven by the advancements in delivery systems, such as lipid nanoparticles (LNPs) tailored for circRNA, are enabling efficient and precise therapeutic applications. The rising number of preclinical and clinical studies focused on circRNA therapeutics underscores the market's potential t%li%transform modern medicine.

By end use, the pharmaceutical and biotechnology companies segment captured the largest revenue share of 59.55% in 2024. The market is driving growth in the circRNA synthesis industry by leveraging its potential for innovative therapies and vaccines.

The North American region dominated the market share of 45.12% in 2024. The market is driven by robust investments in RNA-based research, a strong presence of biotech and pharmaceutical companies, and growing interest in RNA therapeutics and vaccines. Government funding, such as NIH grants, and academic collaborations further support advancements in the field. Additionally,

the region's established infrastructure for clinical trials and cutting-edge technologies accelerates the adoption of circRNA platforms.

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