

Global sgRNA (Single Guide RNA) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global sgRNA (Single Guide RNA) market size is expected to reach \$ 1879 million by 2032, rising at a market growth of 16.6% CAGR during the forecast period (2026-2032).

Single Guide RNA (sgRNA) is a synthetic RNA molecule used in CRISPR-Cas9 gene editing systems. It combines two natural RNA components—crRNA (CRISPR RNA) and tracrRNA (trans-activating CRISPR RNA)—into a single engineered strand. In 2025, global sgRNA production reached approximately 1.94 M units, with an average global market price of around US\$ 320 per unit. Annual production capacity is 2.35 M units. Gross Profit Margin: 58%. The sgRNA industry chain is structured around three main layers: upstream raw material synthesis, midstream manufacturing, and downstream application markets. Upstream consists of RNA nucleotide chemicals, phosphoramidite reagents, and enzymatic IVT systems used to produce guide RNA. Midstream players such as IDT, Synthego, GenScript, and Thermo Fisher specialize in chemical synthesis, IVT production, purification, and modification of sgRNA. Downstream demand is driven by CRISPR-based research, drug discovery, gene therapy development, agricultural genome editing, and molecular diagnostics, where sgRNA functions as a core targeting component of gene editing systems. sgRNA is not just a consumable reagent but a foundational enabling component of the entire CRISPR ecosystem. Its value is shifting from basic research usage toward high-value applications such as cell therapy and in vivo gene editing, where demand for chemically modified and high-precision sgRNAs is increasing. Over time, the market is likely to evolve from a sequence-based pricing model to a performance-grade stratified system, where stability, efficiency, and clinical-grade quality become the main value drivers rather than simple synthesis cost.

This report studies the global sgRNA (Single Guide RNA) production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for sgRNA (Single Guide RNA) 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 sgRNA (Single Guide RNA) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global sgRNA (Single Guide RNA) total production and demand, 2021-2032, (K Units)

Global sgRNA (Single Guide RNA) total production value, 2021-2032, (USD Million)

Global sgRNA (Single Guide RNA) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global sgRNA (Single Guide RNA) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: sgRNA (Single Guide RNA) domestic production, consumption, key domestic manufacturers and share

Global sgRNA (Single Guide RNA) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global sgRNA (Single Guide RNA) production by Delivery State at Use, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global sgRNA (Single Guide RNA) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global sgRNA (Single Guide RNA) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Integrated DNA Technologies, Thermo Fisher Scientific, Synthego Corporation, GenScript Biotech, Horizon Discovery Group, Takara Bio, Sigma-Aldrich, Roche Molecular Systems, Agilent Technologies, New England Biolabs, 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 sgRNA (Single Guide RNA) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/unit) by manufacturer, by Delivery State at Use, 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 sgRNA (Single Guide RNA) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global sgRNA (Single Guide RNA) Market, Segmentation by Delivery State at Use:

Direct RNA Products

Expression-based sgRNA

Pre-assembled RNP

Global sgRNA (Single Guide RNA) Market, Segmentation by Modification Status:

Unmodified sgRNA

Chemically Modified sgRNA

Others

Global sgRNA (Single Guide RNA) Market, Segmentation by Structural Format:

Single-guide RNA

crRNA + tracrRNA Duplex

Global sgRNA (Single Guide RNA) Market, Segmentation by Application:

Biomedical Research

Drug Discovery & Pharmaceutical R&D

Agricultural & Plant Biotechnology

Industrial Biotechnology & Synthetic Biology

Others

Companies Profiled:

Integrated DNA Technologies

Thermo Fisher Scientific

Synthego Corporation

GenScript Biotech

Horizon Discovery Group

Takara Bio

Sigma-Aldrich

Roche Molecular Systems

Agilent Technologies

New England Biolabs

Dharmacon

Twist Bioscience

Bio-Rad Laboratories

BGI Genomics

Sangon Biotech

Eurofins Genomics

Genewiz

Creative Biogene

Creative Biolabs

OriGene Technologies

Key Questions Answered:

1. How big is the global sgRNA (Single Guide RNA) market?
2. What is the demand of the global sgRNA (Single Guide RNA) market?
3. What is the year over year growth of the global sgRNA (Single Guide RNA) market?
4. What is the production and production value of the global sgRNA (Single Guide RNA) market?
5. Who are the key producers in the global sgRNA (Single Guide RNA) market?
6. What are the growth factors driving the market demand?

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