

# Global sgRNA (Single Guide RNA) 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 sgRNA (Single Guide RNA) market size was valued at US\$ 639 million in 2025 and is forecast to a readjusted size of US\$ 1879 million by 2032 with a CAGR of 16.6% during review period.

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 is a detailed and comprehensive analysis for global sgRNA (Single Guide RNA) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Delivery State at Use 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 sgRNA (Single Guide RNA) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/unit), 2021-2032

Global sgRNA (Single Guide RNA) 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 sgRNA (Single Guide RNA) market size and forecasts, by Delivery State at Use and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/unit), 2021-2032

Global sgRNA (Single Guide RNA) 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 sgRNA (Single Guide RNA)

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 sgRNA (Single Guide RNA) 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 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.

### Market Segmentation

sgRNA (Single Guide RNA) market is split by Delivery State at Use and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Delivery State at Use, 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 Delivery State at Use

Direct RNA Products

Expression-based sgRNA

Pre-assembled RNP

#### Market segment by Modification Status

Unmodified sgRNA

Chemically Modified sgRNA

Others

#### Market segment by Structural Format

Single-guide RNA

crRNA + tracrRNA Duplex

## Market segment by Application

Biomedical Research

Drug Discovery & Pharmaceutical R&D

Agricultural & Plant Biotechnology

Industrial Biotechnology & Synthetic Biology

Others

## Major players covered

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

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 sgRNA (Single Guide RNA) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of sgRNA (Single Guide RNA), with price, sales quantity, revenue, and global market share of sgRNA (Single Guide RNA) from 2021 to 2026.

Chapter 3, the sgRNA (Single Guide RNA) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the sgRNA (Single Guide RNA) 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 Delivery State at Use and by Application, with sales market share and growth rate by Delivery State at Use, 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 sgRNA (Single Guide RNA) market forecast, by regions, by Delivery State at Use, 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 sgRNA (Single Guide RNA).

Chapter 14 and 15, to describe sgRNA (Single Guide RNA) sales channel, distributors, customers, research findings and conclusion.

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