

# Global CRISPR Screening Library Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global CRISPR Screening Library market size is expected to reach \$ 589 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

CRISPR screening libraries are high-throughput gene perturbation products comprising large sets of designed and quality-controlled guide RNA sequences supplied as vectors, viral particles, synthetic RNA, or other ready-to-use formats. They support gene knockout, interference, activation, or precision editing in cell populations, with phenotypic selection and sequencing used to identify key genes, pathways, and drug targets. Product value is mainly determined by target coverage, guide design quality, library uniformity, off-target control, delivery titer, and compatibility with downstream platforms. The blended gross margin is approximately 55%.

Demand for validated and reproducible functional-genomics evidence is rising across drug research, moving CRISPR screening libraries from specialist academic tools toward routine use in target discovery, mechanism studies, resistance analysis, and cell therapy engineering. Combined workflows that use genome-wide primary screens followed by focused validation screens are supporting growth in both catalog and custom libraries across oncology, immunology, metabolism, and rare-disease research.

Product development is expanding beyond conventional knockout libraries into CRISPR interference, CRISPR activation, base editing, and single-cell perturbation workflows. Suppliers increasingly compete on guide design algorithms, library uniformity, off-target control, viral titer, lot-level quality control, and compatibility with high-content imaging, cell sorting, and single-cell sequencing platforms. Integrated offerings that combine design, construction, packaging, and data analysis are becoming more important.

North America and Europe remain the main markets for premium products and pharmaceutical customers, while demand in China is being supported by innovative drug programs, cell therapy development, and expansion of research platforms. Key risks include cell-model-specific delivery performance, essential-gene bias, insufficient screen coverage, reproducibility, intellectual-property constraints, and biosafety requirements. Opportunities are concentrated in focused libraries, delivery to difficult cell models, single-cell-compatible libraries, and standardized analysis workflows.

## Report Scope

This report studies the global CRISPR Screening Library demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for CRISPR Screening Library, 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 CRISPR Screening Library that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global CRISPR Screening Library total market, 2021-2032, (USD Million)

Global CRISPR Screening Library total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: CRISPR Screening Library total market, key domestic companies, and share, (USD Million)

Global CRISPR Screening Library revenue by player, revenue and market share 2021-2026, (USD Million)

Global CRISPR Screening Library total market by Type, CAGR, 2021-2032, (USD Million)

Global CRISPR Screening Library total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global CRISPR Screening Library 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 Thermo Fisher Scientific, Merck, Revvity, Integrated DNA Technologies, Synthego, GenScript, Agilent Technologies, Twist Bioscience, Cellesta, VectorBuilder, 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 CRISPR Screening Library market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, 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 CRISPR Screening Library Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CRISPR Screening Library Market, Segmentation by Type:

CRISPR Knockout Libraries

CRISPR Interference Libraries

CRISPR Activation Libraries

Base Editing Libraries

Prime Editing Libraries

Other CRISPR Screening Libraries

#### Global CRISPR Screening Library Market, Segmentation by Guide Count:

Up to 5,000 Guides

5,001?25,000 Guides

25,001?50,000 Guides

More than 50,000 Guides

#### Global CRISPR Screening Library Market, Segmentation by Library Organization:

Pooled Libraries

Arrayed Libraries

#### Global CRISPR Screening Library Market, Segmentation by Delivery Format:

Oligo Pool Libraries

Plasmid DNA Libraries

Lentiviral Particle Libraries

Synthetic Guide RNA Libraries

Engineered Cell Libraries

## Global CRISPR Screening Library Market, Segmentation by Application:

Drug Target Discovery and Validation

Drug Resistance and Sensitivity Screening

Synthetic Lethality and Combination Therapy

Functional Genomics and Pathway Analysis

Immuno-Oncology and Cell Therapy Engineering

Disease Modeling and Phenotype Screening

## Companies Profiled:

Thermo Fisher Scientific

Merck

Rewvity

Integrated DNA Technologies

Synthego

GenScript

Agilent Technologies

Twist Bioscience

Cellecta

VectorBuilder

Ubigene

GeneCopoeia

GeneChem

Applied Biological Materials

#### Key Questions Answered

1. How big is the global CRISPR Screening Library market?
2. What is the demand of the global CRISPR Screening Library market?
3. What is the year over year growth of the global CRISPR Screening Library market?
4. What is the total value of the global CRISPR Screening Library market?
5. Who are the Major Players in the global CRISPR Screening Library market?
6. What are the growth factors driving the market demand?

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