

Global CRISPR Screening Library Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CRISPR Screening Library market size was valued at US\$ 224 million in 2025 and is forecast to a readjusted size of US\$ 589 million by 2032 with a CAGR of 14.6% during review period.

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 is a detailed and comprehensive analysis for global CRISPR Screening Library market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type 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 CRISPR Screening Library market size and forecasts, in consumption value (\$ Million), 2021-2032

Global CRISPR Screening Library market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global CRISPR Screening Library market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global CRISPR Screening Library market shares of main players, in revenue (\$ Million), 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 CRISPR Screening Library

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 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.

Market segmentation

CRISPR Screening Library market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CRISPR Knockout Libraries

CRISPR Interference Libraries

CRISPR Activation Libraries

Base Editing Libraries

Prime Editing Libraries

Other CRISPR Screening Libraries

Market segment by Guide Count

Up to 5,000 Guides

5,001?25,000 Guides

25,001?50,000 Guides

More than 50,000 Guides

Market segment by Library Organization

Pooled Libraries

Arrayed Libraries

Market segment by Delivery Format

Oligo Pool Libraries

Plasmid DNA Libraries

Lentiviral Particle Libraries

Synthetic Guide RNA Libraries

Engineered Cell Libraries

Market segment 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

Market segment by players, this report covers

Thermo Fisher Scientific

Merck

Rewvity

Integrated DNA Technologies

Synthego

GenScript

Agilent Technologies

Twist Bioscience

Cellecta

VectorBuilder

Ubigene

GeneCopoeia

GeneChem

Applied Biological Materials

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe CRISPR Screening Library product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of CRISPR Screening Library, with revenue, gross margin, and global market share of CRISPR Screening Library from 2021 to 2026.

Chapter 3, the CRISPR Screening Library competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and CRISPR Screening Library market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of CRISPR Screening Library.

Chapter 13, to describe CRISPR Screening Library research findings and conclusion.

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