

# **Genome Editing/Genome Engineering Market based on by Application (Cell Line Engineering, Genetic Engineering, Drug Discovery, Gene-modified Cell Therapy, Diagnostics, and Other Applications), Technology (CRISPR, TALEN, ZFN, and Other Technologies), and End User (Academics & Government Institutes, Biotechnology & Pharma Companies, and Contract Research Organizations),Regional Outlook– Global Forecast up to 2030**

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## **Abstracts**

R&D is the first stage in the market's value chain. These items need extensive research and development. R&D efforts are classified into two categories: in-house and outsourced work. In-house responsibilities are concentrated on crucial processes including basic analysis and electronic interpretation of testing parameters. The primary stakeholders in the gene editing supply chain include prominent firms offering gene editing products and services, SMEs, distributors, and end clients (pharmaceutical & biotechnology corporations, academic & research institutions, and diagnostic companies). The primary market influences are investors/funders.

The prominent players in the global gene editing market are Merck KGaA (Germany), Thermo Fisher Scientific, Inc. (US), GenScript (China), Agilent Technologies (US), PerkinElmer (US), Lonza (Switzerland), Tecan Life Sciences (Switzerland), Sangamo Therapeutics (US), Editas Medicine (US), CRISPR Therapeutics AG (Switzerland), Precision Biosciences (US), Collectis S.A. (France), Intellia Therapeutics (US), Bluebird

Bio, Inc. (US), Regeneron Pharmaceuticals (US), AMBIO (England), Creative Biogene (US), Synthego Corporation (US), and Beam Therapeutics Inc. (US). Others include Caribou Biosciences, Inc. (US), OriGene Technologies (US), New England Biolabs (US), Inscripta (US), and Mammoth Biosciences (US).

#### Research Methodology:

After secondary research provided a fundamental understanding of the worldwide Genome Editing/Genome Engineering Market scenario, extensive primary research was carried out. A number of primary interviews were carried out with industry experts from the supply and demand sides, including C- and D-level executives, product managers, and marketing and sales managers of major manufacturers, distributors, and channel partners from tier 1 and tier 2 companies offering Genome Editing/Genome Engineering Market, as well as personnel from academia, research, and CROs. These interviews were conducted across five major regions: North America, Europe, Asia Pacific, and the Rest of the World (Latin America & the Middle East & Africa). Participants from the supply-side and demand-side participated in about 70% and 30% of the primary interviews, respectively. Through the use of questionnaires, emails, online surveys, in-person interviews, and phone interviews, this main data was gathered. The primary participants share is given below:

The segmentation coverage of the study is provided below.

#### Genome Editing/Genome Engineering Market based on Application

Cell line engineering

Genetic Engineering

Drug Discovery

Gene-modified cell therapy and Diagnostics

Other Applications

#### Genome Editing/Genome Engineering Market based on Technology

CRISPR

TALEN

ZFN

Other technologies

### Genome Editing/Genome Engineering Market based on End User

Academics & Government Institutes

Biotechnology & Pharma Companies

Contract Research Organizations

### Genome Editing/Genome Engineering Market based on Geography

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

The worldwide genome editing market is divided into four sections: application, technology, end user, and geography. The market is further divided by application into cell line engineering, genetic engineering, drug discovery, gene modified cell therapy & diagnostics, and other applications. CRISPR, TALEN, ZFN, and other technologies are

classified as CRISPR technologies. End users are classified as academics and government institutes, biotechnology and pharmaceutical businesses, and contract research organisations. The market is divided into four regions: North America, Europe, Asia-Pacific, and Latin America and the Caribbean.

In 2020, the CRISPR category accounted for the greatest proportion of the genome editing market by technology. The simplicity of usage associated with CRISPR, which offers it a major edge over ZFN and TALEN, accounts for a large part of this category. In 2020, pharmaceutical firms held the greatest proportion of the genome editing market. The rising frequency of infectious illnesses and cancer is fueling global research efforts. This will increase demand for genome editing in biotechnology and pharmaceutical businesses.

During the forecast period, North America is expected to account for a sizable portion of the worldwide genome editing market. The region's market is expected to grow in the future, owing to the development of gene therapy in the United States, an increase in the use of genetically modified crops, an increase in the prevalence of infectious diseases and cancer, and the availability of research grants and funding.

Agilent Technologies, CRISPR Therapeutics, Danaher, Eurofins Scientific, Editas Medicine, GenScript, Horizon Discovery Limited, Lonza, Merck, and Thermo Fisher Scientific are among the prominent industry participants mentioned in the study.

This report illustrates the most vital attributes of the Genome Editing/Genome Engineering Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Genome Editing/Genome Engineering Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Genome Editing/Genome Engineering Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Genome Editing/Genome Engineering Market.

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