Genome Editing Market to Surpass USD 31.15 Billion by 2031 | SkyQuest Technology

Genome Editing Market size was valued at USD 8.99 billion in 2023 to USD 31.15 billion by 2031, at a CAGR of 16.80% during the forecast period 2024-2031.

WESTFORD, MA, UNITED STATES,
October 10, 2024 /EINPresswire.com/ -- Genome editing market is experiencing momentous growth impacted by improvements in the progressing CRISPR technology, growing applications in agriculture, medicine, and biotechnology, and heavy funding for research and development. Overall, the market is impacted by factors like ethical considerations, supportive regulatory approvals, and increasing demand for personalized medicine.

Explore Comprehensive Insights into The Genome Editing Market with A Detailed Sample Report Free: https://www.skyquestt.com/sample-request/genome-editing-market

Advancements in CRISPR Technology and Innovations in Agriculture are Trending in Market

Novel techniques like CRISPR/Cas9 advancements and base editing enable highly precise alterations with comparatively less of-target impacts. Also, the rising focus on gene therapies for treating different genetic disorders, different types of cancers, and possible cures for sickle cell anemia-like diseases is also demanding genome editing. Furthermore, improved crop attributes with the help of genome editing like climate adaptability and disease resistance is another trend witnessed in the market.

Improved Precision Techniques and AI Integration to Gain Traction over 4-5 years

Continuous refining of technologies and tools, such as base editing and prime editing enable researchers for more precise alterations. This majorly reduces off-target impacts and increases efficiency and reliability. Also, the rise in clinical applications, mainly in gene therapies for cancer and rare diseases is seeing expansion with a greater number of treatments shifting into potential approvals and clinical trials. The expanding use of artificial intelligence significantly enhances predicting results, genome editing, and simplified designs.

Prime Editing and Multiplexing to Spur Market in Coming Years

Prime editing is a modernized technique that enables highly precise DNA alterations with comparatively less unintentional modifications. This ultimately expands its possibilities for diverse therapeutic applications. Also, improvements in multiplex gene editing allow modifications of multiple gene at the same time. This notably improves its efficacy in agricultural and research applications. Moreover, increasing number of approvals for clinical trials comprising CRISPR therapies, mainly for cancers and hereditary illnesses, reflect its increased global acceptance.

Market to Witness Rising Integration of Multi-Omics and Broder Clinical Use over Next 10 years

Combination of genome editing with proteomics, genomics and metabolomics will create more exhaustive therapeutic strategies and customized medicine techniques in the coming 10 years. This will help in better patient outcomes and help them get treated with accuracy. Moreover, increased use of gene editing therapies for a wider range of chronic and severe diseases will rise in the future as more therapies will obtain regulatory acceptance.

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Latest Headlines and Headlights

In June 2024: Cibus, Inc. declared that it expanded its property for 10 trait families and gene editing. This intellectual property development in the past 6 months encompasses productivity traits, gene editing, and quality traits, reinforcing the company's coverage in different geographies like Europe, Latin America, Asia, the U.S. and Canada.

In May 2024: Sangamo Therapeutics, Inc. showcased its pre-clinical data presenting the novel next-gen integrase technology designed to allow wide-scale genome editing. Also, the Modular Integrase (MINT) solution is versatile approach that integrates huge quantities DNA sequences in genome editing to treat patients having exceptional mutations in the similar gene with sole medicine.

In August 2022: Merck and Orna therapeutics announced the signing an agreement to explore, produce, and supply multiple programs like therapeutics and vaccines for oncology and infectious diseases.

This report covers following segments:

A. Technology
1. (CRISPR)/Cas9
2. TALENs/MegaTALs

3. ZFN
4. Meganuclease
5. Others

B. Delivery Method
1. Ex-vivo
2. In-vivo

C. Application
1. Genetic Engineering [Cell Line Engineering
2. Animal Genetic Engineering
3. Plant Genetic Engineering, Others]
4. Clinical Applications [Diagnostics, Therapy Development]

D. Mode
1. Contract
2. In-house

E. End-Use
1. Biotechnology and Pharmaceutical Companies
2. Academic and Government Research Institutes
3. Contract Research Organizations

Genome Editing Market Top Players Company Profiles:

- Merck KGaA (Germany)
- Cibus Inc (US)
- Recombinetics (US)
- Sangamo Therapeutics (US)
- Editas Medicine (US)
- Precision BioSciences (US)
- CRISPR Therapeutics (Switzerland)
- Intellia Therapeutics, Inc (US)
- Caribou Biosciences, Inc. (US)
- Cellectis S.A (France)
- AstraZeneca (UK)
- Takara Bio Inc. (Japan)
- Horizon Discovery Ltd. (Revvity, Inc.) (UK)
- Danaher Corporation (US)
- Transposagen Biopharmaceuticals, Inc. (US)
- Genscript Biotech Corp (China)
- New England Biolabs (US)
- OriGene Technologies, Inc. (US)

- bluebird bio, Inc (US)
- Lonza (Switzerland)
- Thermo Fisher Scientific Inc. (US)

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Potential for Innovations Will Address Global Challenges and Transform Understanding of Genetic Handling

Expanded therapeutic applications, improvements in precision techniques, and modernized delivery techniques improve treatment efficiency and safety. Regulatory frameworks and ethical discussions will play a major role in assisting effective and responsible use, essentially in healthcare applications. As alliances increase among different sectors, the possibilities for more innovations will further address global challenges and transform the interpretation of genetic manipulation and social effects.

Related Reports:

Digital Genome Market is growing at a CAGR of 18.5% in the forecast period (2024-2031)
CRISPR Technology Market is growing at a CAGR of 16.50% in the forecast period (2024-2031)

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SkyQuest is an IP focused Research and Investment Bank and Accelerator of Technology and assets. We provide access to technologies, markets and finance across sectors viz. Life Sciences, CleanTech, AgriTech, NanoTech and Information & Communication Technology.
We work closely with innovators, inventors, innovation seekers, entrepreneurs, companies and investors alike in leveraging external sources of R&D. Moreover, we help them in optimizing the economic potential of their intellectual assets. Our experiences with innovation management and commercialization have expanded our reach across North America, Europe, ASEAN and Asia Pacific.

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