

Middle East Genome Editing Market Size, Share & Trends Analysis Report By Technology (CRISPR/Cas9, ZFN), By Delivery Method (Ex Vivo. In Vivo), By Application, By Mode (Contract, In-house), By End Use, By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

Middle East Genome Editing Market Trends

The Middle East genome editing market size was estimated at USD 272.8 million in 2024 and is projected to reach USD 668.6 million by 2033, growing at a CAGR of 9.78% from 2025 to 2033. This growth is primarily driven by increasing investments in biotechnology research, rising prevalence of genetic disorders, expanding applications of CRISPR and other gene-editing technologies in agriculture and healthcare, and supportive government initiatives to advance genomic medicine. Moreover, strategic collaborations between regional research institutions and global biotech firms further accelerate regional innovation and market expansion.

Widespread Adoption of CRISPR Technologies

The Middle East is witnessing a rapid uptake of CRISPR-based genome editing technologies, driven by their precision, efficiency, and cost-effectiveness compared to earlier methods such as zinc finger nucleases and TALENs. This surge in adoption is closely tied to the region's pressing healthcare needs, particularly the high prevalence of monogenic disorders like sickle cell anemia, beta-thalassemia, and certain metabolic syndromes. National genomics initiatives in Saudi Arabia, Qatar, and the UAE generate vast genetic datasets, creating fertile ground for CRISPR-enabled research in functional

genomics, target validation, and therapeutic development. Growing investment in local research infrastructure and scientist training also reduces reliance on international expertise, accelerating the translation of genome editing from lab research to clinical applications.

Middle East Genome Editing Market Report Segmentation

This report forecasts revenue growth and provides an analysis of the latest trends in each of the sub-segments from 2021 to 2033. For this report, Grand View Research has segmented the Middle East genome editing market report based on technology, delivery method, application, mode, end use, and country:

Technology Outlook (Revenue, USD Million, 2021 - 2033)

(CRISPR)/Cas9

TALENs/MegaTALs

ZFN

Meganucleases

Others

Delivery Method Outlook (Revenue, USD Million, 2021 - 2033)

Ex vivo

In vivo

Application Outlook (Revenue, USD Million, 2021 - 2033)

Genetic Engineering

Cell line engineering

Animal genetic engineering

Plant genetic engineering

Others

Clinical Applications

Diagnostics Development

Therapy Development

Mode Outlook (Revenue, USD Million, 2021 - 2033)

Contract

In-house

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Biotechnology and pharmaceutical companies

Academic and government research institutes

Contract research organizations

Country Outlook (Revenue, USD Million, 2021 - 2033)

Saudi Arabia

UAE

Kuwait

Qatar

Oman

Rest of Middle East

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