

Global MuA Recombinase Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on MuA Recombinase competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. MuA transposase is derived from the MuA gene of bacteriophage Mu, which can catalyze the insertion of DNA from bacteriophage Mu into the host genome, or cut out from the host genome and transfer to other locations. The recombinantly expressed product can catalyze the insertion of donor genes into receptor DNA, and complete the transposition by recognizing the IR sequence, forming a transposition complex (4-mer), cutting the target DNA and reconnecting it. The price of MuA transposase varies by supplier, product specifications and region, and is generally between \$100 and \$1,300 per unit. With the rapid development of genome editing and functional genomics research, the market demand for MuA transposase continues to grow. According to a report by Verified Market Research, the molecular biology enzyme and reagent market is expected to grow from \$19.3 billion in 2023 to \$69.4 billion in 2031, with an average annual growth rate of 17.35%. This trend has promoted the widespread use of MuA transposase in scientific research and industrial applications, especially in high-throughput mutation library construction and genome integration research. At the same time, suppliers continue to launch efficient and low-cost MuA transposase products to meet the market demand for high-quality scientific research reagents.

1. by Product Type

- Wild-type MuA recombinase: Derived from the natural bacteriophage Mu, catalyzes transposition and integration reactions, used in basic research and teaching. Market share: 34%
- Engineering MuA recombinase: Optimized through site-directed mutagenesis or protein engineering to enhance activity and site specificity, widely used in synthetic biology and genetic engineering. Market share: 36%
- Chimeric/Fusion MuA Recombinase: Combines the MuA domain with other DNA-

binding proteins (such as TALE, dCas9) to achieve programmable site-directed insertion. Market share: 20%
Classification by Application System
Gene Editing Systems: Used as DNA insertion or tag construction enzymes, suitable for prokaryotic and eukaryotic cell gene modification.
Transposition Mutant Library Systems: Used for random insertion mutation studies, combined with high-throughput sequencing for functional gene screening.
Vector Integration Systems: Integrates exogenous fragments into the host genome to achieve stable expression or pathway reconstruction.
Synthetic Biology Modular Assembly Systems: Enables automated connection in modular design and multi-gene synthetic pathway construction.
Classification by Performance Parameters?
High Activity Type: Enzyme catalytic rate increased by 2-3 times, suitable for large-scale transposition reactions.
High Specificity: Insertion error rate

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