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PEmax mRNA for Precision Prime Editing

DNA-free, m1ψ-modified mRNA designed for efficient prime editor expression

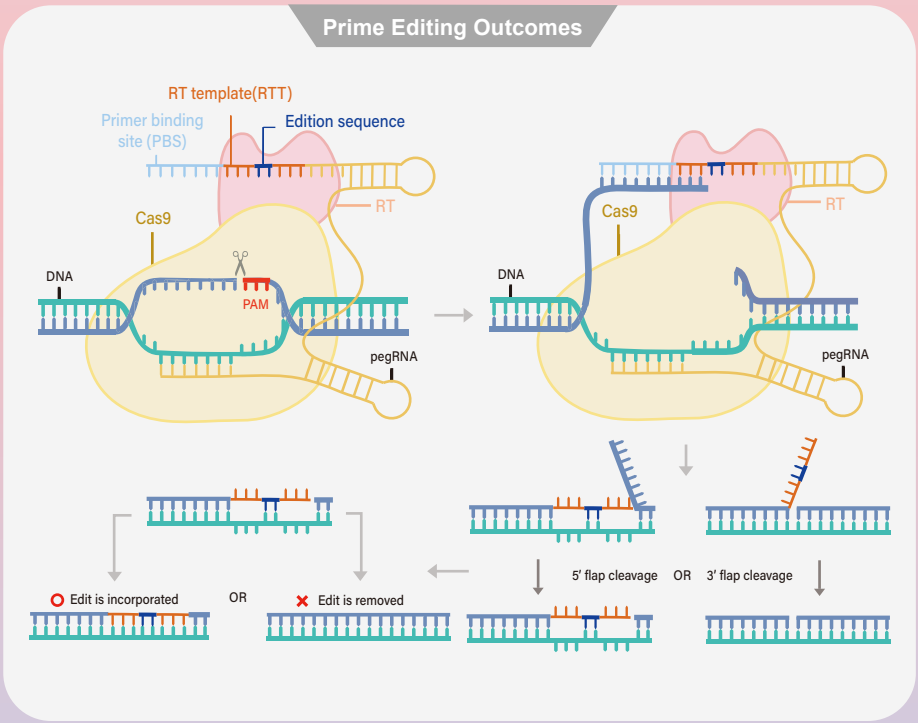
Prime editing offers a powerful next-generation genome editing approach for installing precise base substitutions, insertions, and deletions without introducing double-strand DNA breaks or requiring donor DNA templates. PEmax is an engineered prime editor architecture that enhances editing efficiency and product purity across diverse targets and cell types. Delivered as a DNA-free, m1Ψ-modified, Cap 1-capped mRNA with a long poly(A) tail, PEmax mRNA enables robust yet transient prime editor expression, reducing genomic integration risk while supporting efficient editing workflows in cell engineering, functional genomics, and disease-modeling studies.

Why PEmax mRNA?

- **m1ψ Modification -** Improves mRNA stability and supports efficient translation.
- **Cap 1 + Poly(A) Tail -** Mimics mature mRNA for enhanced performance.
- **Prime Editing Ready -** Designed for precise genome modification workflows.
- **DNA-free Format -** Supports transient expression without plasmid-based delivery.

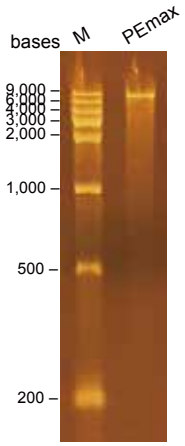
Applications

Prime editing research | Mutation correction studies | Cell engineering workflows | Functional genomics

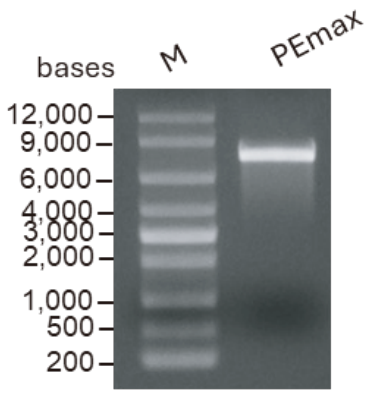


Cat#	Product	Package
CR00048	PEmax mRNA (m1ψ substitution)	100 μg / 1 mg

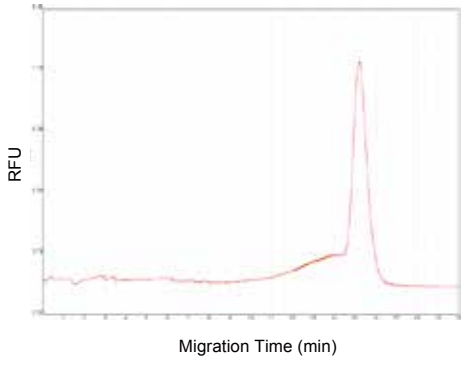
Validated mRNA Quality for Reliable Prime Editing



Native E-Gel
Expected high-molecular-weight RNA band observed.



Denaturing Formaldehyde Agarose Gel
RNA size confirmed under denaturing condition.



Capillary Electrophoresis
RNA integrity and size distribution verified.