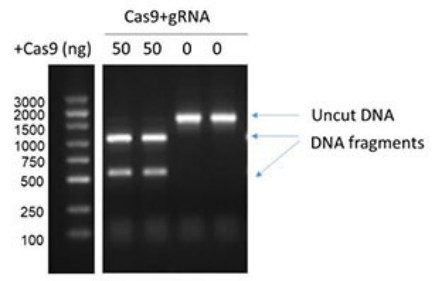
Ultra NLS-Cas9-basic

Catalog # P7085 Size 1 mg

Applications



A 20 uL reaction in 1xCas9 Nuclease Reaction Buffer containing 160 ng linearized plasmid, 100 ng gRNA, and 50 ng Ultra NLS-Cas9-basic for 2 hours at 37°C results in a digestion efficiency of linearized plasmid higher than 90%, as determined by agarose gel electrophoresis.

Specification

Product Description	Recombinant *Streptococcus pyogenes* Cas9 gene expressed in an *Escherichia coli* with a N-terminal nucleic localization signal (NLS).
Host	Escherichia coli
Theoretical MW (kDa)	~160 kDa
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	≥ 95% as analyzed by SDS-PAGE ≥ 95% as analyzed by SEC-HPLC
Endotoxin Level	≤ 10 EU/mg as analyzed by gel clotting method
Quality Control Testing	Cleavage assay A 20 uL reaction in 1xCas9 Nuclease Reaction Buffer containing 160 ng linearized plasmid, 100 ng gRNA, and 50 ng Ultra NLS-Cas9-basic for 2 hours at 37°C results in a digestion efficiency of linearized plasmid higher than 90%, as determined by agarose gel electrophoresis.
Recommend Usage	CRISPR Genomic editing The optimal working dilution should be determined by the end user.
Storage Buffer	In 25 mM Tris, 300 mM NaCl, 0.1 mM EDTA, pH8.0 (50% glycerol).

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Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- CRISPR Genomic Editing

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