

## Datasheet for ABIN3188187 Cas9 Nuclease Protein

### Overview

Quantity:	40 µg
Application:	Genome Editing with Engineered Nucleases (GEEN)

### Product Details

Characteristics:	The Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR)/Cas9 system is the latest RNA-guided, endonuclease tool in genome editing which allows for very specific genomic disruption and replacement. Guided by a target-specific, single guide RNA (sgRNA), the Cas9 Nuclease Protein serves to unwind the genomic DNA duplex and cleave both strands upon recognition of the target sequence by the sgRNA. The resulting double-stranded break gets repaired by the non-homologous end joining (NHEJ) pathway, leading to a disruption in the open reading frame of the targeted gene.
Components:	Enzyme supplied with 10X Reaction Buffer

### Application Details

Restrictions:	For Research Use only
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### Handling

Concentration:	10 µM
Buffer:	10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM DTT, 300 mM NaCl, and 50 % (v/v) Glycerol.
Storage:	-20 °C

### Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)
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