

Datasheet for ABIN3188184 Cas9 Nuclease NLS Protein

Overview

Quantity:	8 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 NLS Protein serves to cleave both strands of a DNA duplex 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. Cas9 Nuclease NLS contains a SV40 T antigen nuclear localization sequence (NLS) on the C-terminus of the protein.
Components:	Enzyme supplied with 10X Reaction Buffer

Application Details

Restrictions:	For Research Use only
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Handling

Concentration:	1000 nM
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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