-online.com **QENOMICS**



Datasheet for ABIN3188188

Storage:

-20 °C

Cas9 Null Mutant 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. The Cas9 Null Mutant Protein (also referred to as the Double
	Mutant) is created by mutating both cleavage domains of the wild type Cas9 (D10A and
	H840A). Such a Cas9 protein retains its ability to bind to genomic DNA through gRNA:genomic
	DNA base pairing, however, unlike Cas9 Nuclease and Cas9 Nickase, where permanent gene
	disruption can be achieved, the Cas9 Null Mutant does not introduce any genome
	modifications. Therefore, this protein can provide a useful negative control for CRISPR
	experiments. In addition, binding of the Null Mutant can act as a roadblock to hinder
	transcription, thus offering a useful tool to achieve reversible knock-down of gene expression.
Components:	Enzyme supplied with 10X Reaction Buffer
Application Details	
Restrictions:	For Research Use only
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.

Publications

n .		
Product	CITEC	ın.

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