

## Cas9 Nuclease from *Streptococcus pyogenes*, GFP tag

### Product Information

<b>Cat#</b>	CAS-0904
<b>Source</b>	Recombinant
<b>Description</b>	Cas9 Nuclease (SpCas9), derived from the Spogems strain, is an sgRNA-guided DNA endonuclease that cleaves double-stranded DNA. In the presence of PAM (protospacer adjacent motif) in the target DNA, Cas9 Nuclease can specifically cleave the target double-stranded DNA under gRNA guidance, causing DNA double-strand breaks and blunt ends. The PAM sequence is essential for Cas9 to recognize and cleave the target DNA; its cleavage site is located within the target sequence (NNGP), three units away from the PAM region. After transfection into cells, Cas9 GP can be observed under a microscope to determine whether SpCas9 has entered the cell nucleus and completed gene editing. It can also be applied to in vitro experiments such as target DNA cleavage and cloning of target fragments.
<b>Storage</b>	Shelf life is 1 year. Storage conditions: -80°C. To avoid repeated freeze-thaw cycles, after opening, please store the Cas enzyme at -20°C. It is recommended to aliquot according to the number of uses to avoid repeated temperature changes that may reduce enzyme activity.
<b>Purity</b>	95% (SDS-PAGE)
<b>Optimum temperature</b>	37°C
<b>Abbr</b>	SpCas9
<b>Applications</b>	Gene Editing; Visualization
<b>Appearance</b>	Liquid
<b>Molecular Weight</b>	195.15 KDa
<b>Species</b>	<i>Streptococcus pyogenes</i>
<b>Concentration</b>	100μM



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**Grade**

Research Grade

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