

# Active Recombinant Full Length Streptococcus pyogenes cas9 Protein, N-His-tagged

**Cat. No.** cas9-23HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Streptococcus pyogenes cas9 Protein, fused to His-tag at N-terminus, was expressed in E. coli.                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Streptococcus pyogenes                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | type II CRISPR RNA-guided endonuclease Cas9                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Supplied from sterile 10mM Tris, 300mM NaCl, 0.1mM EDTA, 1mM DTT, pH7.4, 50% glycerol.                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | In vitro digestion of a DNA fragment with the recombinant S.pyrogene Cas9 nuclease. The input DNA is XmnI-linearized vector was cleaved by with a synthetic sgRNA.                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 165.0 kDa                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MHHHHHHENL YFQGAIPKKK RKVEDPKKKR KVDIAMDKKY SIGLDIGTNS<br>VGWAVITDEY KVPSKKFKVL GNTDRHSIKK NLIGALLFDS GETAEATRLK<br>RTARRRYTRR KNRICYLQEI FSNEMAKVDD SFFHRLEESF LVEEDKKHER<br>HPIFGNIVDE VAYHEKYPTI YHLRKKLVDS TDKADLR LIY LALAHMIKFR<br>GHFLIEGDLN PDNSDVDKLF IQLVQTYNQL FEENPINASG VDAKAILSAR<br>LSKSRLENL IAQLPGEKKN GLFGNLIALS LGLTPNFKSN FDLAEDAKLQ<br>LSKDTYDDDL DNLLAQIGDQ YADFLAAKN LSDAILSDI LRVNTEITKA |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

PLSASMIKRY DEHHQDLTLL KALVRQQLPE KYKEIFFDQS KNGYAGYIDG  
 GASQEEFYKF IKPILEKMDG TEELLVKLNR EDLLRKQRTF DNGSIPHQIH  
 LGELHAILRR QEDFYPPFLKD NREKIEKILT FRIPYYVGPL ARGNSRFAWM  
 TRKSEETITP WNFEEVVDKG ASAQSFIERM TNFDKNLPNE KVLPHKSHLLY  
 EYFTVYNELT KVKYVTEGMR KPAFLSGEQK KAIVDLLFKT NRKVTVKQLK  
 EDYFKKIECF DSVEISGVED RFNASLGTYH DLLKIIKDKD FLDNEENEDI  
 LEDIVLTLTL FEDREMIEER LKTYAHLFDD KVMKQLKRRR YTGWGRLSRK  
 LINGIRDKQS GKTILDFLKS DGFANRNFQM LIHDDSLTFK EDIQAQVSG  
 QGDSLHEHIA NLAGSPAICK GILQTVKVVD ELVKVMGRHK PENIVIEMAR  
 ENQTTQKGQK NSRERMKRIE EGIKELGSQI LKEHPVENTQ LQNEKLYLY  
 LQNGRDMYVD QELDINRLSD YDVDHIVPQS FLKDDSIDNK VLTRSDKNRG  
 KSDNVPSEEV VKKMKNYWRQ LLNAKLITQR KFDNLTKAER GGLSELDKAG  
 FIKRQLVETR QITKHVAQIL DSRMNTKYDE NDKLIREVKV ITLKSCLVSD  
 FRKDFQFYKV REINNYHHAH DAYLNAVVG T ALIKKYPKLE SEFVYGDYKV  
 YDVRKMIAS EQEIGKATAK YFFYSNIMNF 1081 FKTEITLANG EIRKRPLIET  
 NGETGEIVWD KGRDFATVRK VLSMPQVNIV KKTEVQTGGF SKESILPKRN  
 SDKLIARKKD WDPKKYGGFD SPTVAYSVLV VAKVEKGKSK KLKSVKELLG  
 ITIMERSSFE KNPIDFLEAK GYKEVKKDLI IKLPKYSLFE LENGKRMLA  
 SAGELQKGNE LALPSKYVNF LYLASHYEKL KGSPEDNEQK QLFVEQHKHY  
 LDEIIEQISE FSKRVILADA NLDKVL SAYN KHRDKPIREQ AENIIHLFTL  
 TNLGAPAAFK YFDTTIDRKR YTSTKEVLDA TLIHQ SITGL YETRIDLSQL  
 GGDPKKKRKV EDPKKKRKVD TR

|                  |                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b> | < 0.5 EU per 1 g of the protein by the LAL.                                                                                          |
| <b>Purity</b>    | > 90% as determined by SDS-PAGE and Coomassie blue staining.                                                                         |
| <b>Stability</b> | Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |

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**Storage** Store at -80 centigrade.

**Concentration** 10 uM

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** cas9 type II CRISPR RNA-guided endonuclease Cas9 [ *Streptococcus pyogenes* ]

**Official Symbol** cas9

**Gene ID** 69900935

**Protein Refseq** WP\_038431314.1

**UniProt ID** Q99ZW2



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