

# 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 VGWAVITDEY KVPSKKFKVL GNTDRHSIKK NLIGALLFDS GETAEATRLK RTARRRYTRR KNRICYLQEI FSNEMAKVDD SFFHRLEESF LVEEDKKHER HPIFGNIVDE VAYHEKYPTI YHLRKKLVDS TDKADLRLIY LALAHMIKFR GHFLIEGDLN PDNSDVDKLF IQLVQTYNQL FEENPINASG VDAKAILSAR LSKSRLENL IAQLPGEKKN GLFGNLIALS LGLTPNFKSN FDLAEDAKLQ LSKDTYDDDL DNLLAQIGDQ YADFLAAKN LSDAILSDI LRVNTEITKA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 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 ASAQSIERM TNFDKNLPNE KVLPHKSHLLY  
 EYFTVYNELT KVKYVTEGMR KPAFLSGEQK KAIVDLLFKT NRKVTVKQLK  
 EDYFKKIECF DSVEISGVED RFNASLGTYP DLLKIIKDKD FLDNEENEDI  
 LEDIVLTLTL FEDREMIEER LKTYAHLFDD KVMKQLKRRR YTGWGRLSRK  
 LINGIRDKQS GKTILDFLKS DGFANRNFQM LIHDDSLTFK EDIQAQVSG  
 QGDSLHEHIA NLAGSPAICK GILQTVKVVD ELVKVMGRHK PENIVIEMAR  
 ENQTTQKGQK NSRERMKRIE EGIKELGSQI LKEHPVENTQ LQNEKLYLYY  
 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  
 ITIMERSSEFE KNPIDFLEAK GYKEVKKDLI IKLPKYSLFE LENGKRMLA  
 SAGELQKGNE LALPSKYVNF LYLASHYEKL KGSPEDNEQK QLFVEQHKHY  
 LDEIIEQISE FSKRVILADA NLDKVL SAYN KHRDKPIREQ AENIIHLFTL  
 TNLGAPAAFK YFDTTIDRKR YTSTKEVLDA TLIHQSI TGL 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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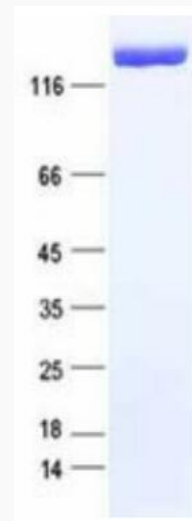
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<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	10 uM
<b>Full Length</b>	Full L.

## GENE INFORMATION

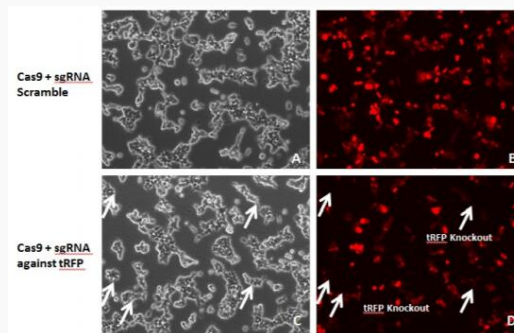
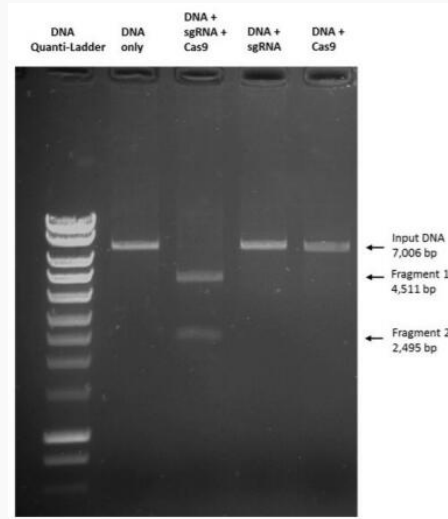
<b>Gene Name</b>	<a href="#">cas9 type II CRISPR RNA-guided endonuclease Cas9 [ Streptococcus pyogenes ]</a>
<b>Official Symbol</b>	<a href="#">cas9</a>
<b>Gene ID</b>	<a href="#">69900935</a>
<b>Protein Refseq</b>	<a href="#">WP_038431314.1</a>
<b>UniProt ID</b>	<a href="#">Q99ZW2</a>



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