Recombinant Lachnospiraceae Cas12 Protein, GST-tagged

Cat. No. Cas12-02L **Lot. No.** (See product label)

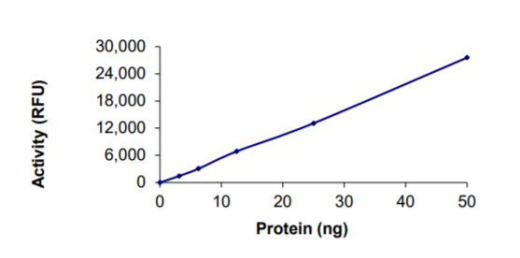
SPECIFICATION

Product Overview	Recombinant Lachnospiraceae Cas12 (LbCpf1) (1-1227) was expressed in E. coli with a N-terminal GST tag.
Species	Lachnospiraceae
Source	E.coli
ProteinLength	1-1227
Description	The severe acute respiratory syndrome related novel coronavirus SARS-CoV-2 has caused the pandemic of the respiratory diseases (COVID-19) around the world in 2020. Developing rapid and sensitive diagnostic tools is key for successful patient management and curbing the disease spread. Several CRISPR-Cas12 based SARS-CoV-2 detection assays have been developed. Comparing to conventional RT-PCR based tests that are hindered by the need for expensive lab instrumentation, Cas12 based tests are ultrasensitive, rapid and in low-cost POCT formats.
Molecular Mass	150 kDa
Purity	~ 70%
Applications	Activity Assay
Stability	One year at -70 centigrade from date of shipment.

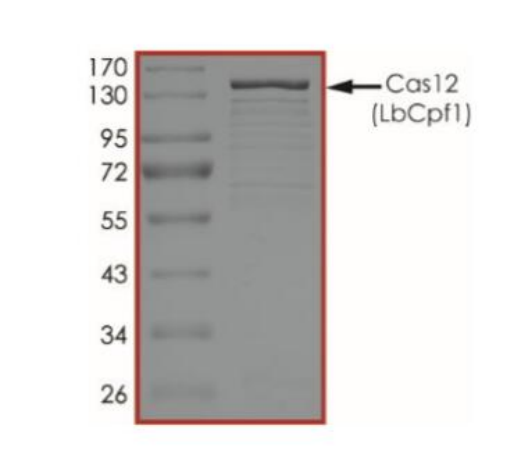
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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 μg/μL
Storage Buffer	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1 mM EDTA, 1mM DTT, 10% glycerol.
Shipping	Dry ice

GENE INFORMATION

Official Symbol	Cas12
Synonyms	Cas12; Cpf1 (synthetic construct)
Activity	 The specific activity of Cas12 (LbCpf1) was determined to be 11.4 nmol/min/mg as per activity assay protocol.

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Purity	 The purity of Cas12 (LbCpf1) was determined to be ~70% by densitometry. Approx. MW 150kDa.

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