RNA-Directed RNA Polymerase L (L) Lake Victoria Marburgvirus Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA-directed RNA polymerase L (L), Recombinant Protein
Full Product Name	Recombinant Lake Victoria marburgvirus RNA-directed RNA polymerase L (L), partial
Product Gene Name	L recombinant protein
Product Synonym Gene Name	L
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	266,524 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q1PDC4
Species	Lake Victoria marburgvirus (strain Ravn-87) (MARV) (Marburg virus (strain Kenya/Ravn/1987))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for L recombinant protein	MBS1313919 is a recombinant protein targeting L. Also known as Recombinant Lake Victoria marburgvirus RNA-directed RNA polymerase L (L), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of L recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for L. It may not necessarily be applicable to this product.

NCBI GI #	123820544
NCBI Accession #	Q1PDC4.1
UniProt Primary Accession #	Q1PDC4
NCBI Official Full Name	RNA-directed RNA polymerase L
UniProt Protein Name	RNA-directed RNA polymerase L
UniProt Synonym Protein Names	Large structural protein; Replicase; TranscriptaseIncluding the following 4 domains:RNA-directed RNA polymerase (EC:2.7.7.48
UniProt Gene Name	L
UniProt Synonym Gene Names	Protein L

UniProt Comments for L	RNA-directed RNA polymerase that catalyzes the transcription of viral mRNAs, their capping and polyadenylation. The template is composed of the viral RNA tightly encapsidated by the nucleoprotein (N). The viral polymerase binds to the genomic RNA at the 3' leader promoter, and transcribes subsequently all viral mRNAs with a decreasing efficiency. The first gene is the most transcribed, and the last the least transcribed. The viral phosphoprotein acts as a processivity factor. Capping is concommitant with initiation of mRNA transcription. Indeed, a GDP polyribonucleotidyl transferase (PRNTase) adds the cap structure when the nascent RNA chain length has reached few nucleotides. Ribose 2'-O methylation of viral mRNA cap precedes and facilitates subsequent guanine-N-7 methylation, both activities being carried by the viral polymerase. Polyadenylation of mRNAs occur by a stuttering mechanism at a slipery stop site present at the end viral genes. After finishing transcription of a mRNA, the polymerase can resume transcription of the downstream gene.
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