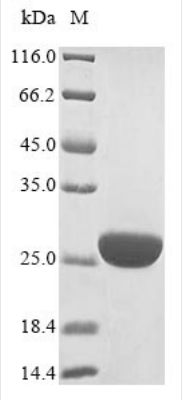
RNA-Directed RNA Polymerase L (L), Partial (L) Vesicular Stomatitis Indiana Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA-directed RNA polymerase L (L), partial, Recombinant Protein
Full Product Name	Recombinant Vesicular stomatitis Indiana virus RNA-directed RNA polymerase L (L), partial
Product Gene Name	L recombinant protein
Product Synonym Names	RNA-directed RNA polymerase L; Protein L; Large structural protein; Replicase; Transcriptase; Including the following 3 domains:; RNA-directed RNA polymerase; EC=2.7.7.48; mRNA (guanine-N(7)-)-methyltransferase; EC=2.1.1.56; mRNA guanylyltransferase; EC=2
Sequence	ICIANHIDYE KWNNHQRKLS NGPVFRVMGQ FLGYPSLIER THEFFEKSLI YYNGRPDLMR VHNNTLVNST SQRVCWQGQE GGLEGLRQKG WSILNLLVIQ REAKIRNTAV KVLAQGDNQV ICTQYKTKKS RNVVELQSAL NQMVSNNEKI MTAIKIGTGK LGLLINDDET MQSADYLNYG KIPIFRG
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	25.4 kDa
Sequence Positions	598-784. Partial
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 Q8B0H0
Species	Vesicular stomatitis Indiana virus (strain 94GUB Central America) (VSIV)
Production Note	**Special Offer:** The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our **technical support team** **or email to** **support@mybiosource.com** for more details.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for L recombinant protein	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 acticities 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. RNA-directed RNA polymerase that catalyzes the replication of viral genomic RNA. The template is composed of the viral RNA tightly encapsidated by the nucleoprotein (N). The replicase mode is dependent on intracellular N protein concentration. In this mode, the polymerase replicates the whole viral genome without recognizing transcriptional signals, and the replicated genome is not caped or polyadenylated.
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.
Searchable Terms for L purchase	MBS1324526 is a recombinant protein targeting L. Also known as Recombinant Vesicular stomatitis Indiana virus RNA-directed RNA polymerase L (L), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-Page of L recombinant protein

ADDITIONAL DETAILS

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

NCBI GI #	81945898
NCBI Accession #	Q8B0H0.1
UniProt Primary Accession #	Q8B0H0
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 3 domains:RNA-directed RNA polymerase (EC:2.7.7.48); mRNA (guanine-N(7)-)-methyltransferase (EC:2.1.1.56); mRNA guanylyltransferase (EC:2.7.7.-)
UniProt Gene Name	L
UniProt Synonym Gene Names	Protein L
UniProt Entry Name	L_VSIVC

UniProt Comments for L	Displays RNA-directed RNA polymerase, mRNA guanylyl transferase, mRNA (guanine-N(7)-)-methyltransferase and poly(A) synthetase activities. The viral mRNA guanylyl transferase displays a different biochemical reaction than the cellular enzyme. The template is composed of the viral RNA tightly encapsidated by the nucleoprotein (N). Functions either as transcriptase or as replicase. The transcriptase synthesizes subsequently five subgenomic RNAs, assuring their capping and polyadenylation by a stuttering mechanism. The replicase mode is dependent on intracellular N protein concentration. In this mode, the polymerase replicates the whole viral genome without recognizing the transcriptional signals ().
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