

RNA-directed RNA polymerase L (L), partial Recombinant Protein | L recombinant protein

Recombinant Vesicular stomatitis Indiana virus RNA-directed RNA polymerase L (L), partial

CATALOG # AAA116751	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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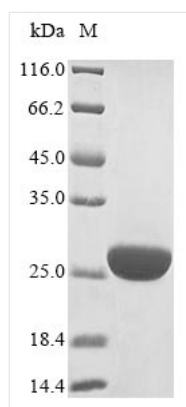
PRODUCT SYNONYMS

RNA-directed RNA polymerase L (L); partial; Recombinant Vesicular stomatitis Indiana virus RNA-directed RNA polymerase L (L); 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; L recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	598-784. Partial
Sequence	ICIANHIDYE KWNNHQRKLS NGPVFRVMGQ FLGYPSLIER THEFFEKSLI YYNGRPDLMR VHNNTLVNST SQRVCWQGQE GGLEGLRQKG WSILNLLVIQ REAKIRNTAV KVLAQGDQV ICTQYKTKKS RNVVELQSAL NQMVSNNEKI MTAIKIGTGK LGLLINDDET MQSADYLNYG KIPIFRG
Sequence Length	784
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 or email to for more details.
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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

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 concomitant 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 slippery 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 capped or polyadenylated.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	81945898
UniProt Accession #	Q8B0H0
Molecular Weight	25.4 kDa
NCBI Official Full Name	RNA-directed RNA polymerase L
UniProt Protein Name	RNA-directed RNA polymerase L
UniProt Gene Name	L
UniProt Synonym Gene Names	Protein L
UniProt Entry Name	L_VSIVC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.