DNA Terminal Protein (3) (B103_02) Bacillus Phage B103 Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA terminal protein (3) (B103_02), Recombinant Protein
Full Product Name	Recombinant Bacillus phage B103 DNA terminal protein (3)
Product Gene Name	B103_02 recombinant protein
Sequence	MARNSRIRIT NNDKALYAKL VKNTKAKISR TKKKYGIDLS NEIELPPLES FQTRKEFNEW KRKQESFTNR ANQNYQFVKN KYGIVASKAK INEIEKNTKE AQRIVDEQRE EIEDKPFISG GKQQGTVGQR MQILSPSQVT GVSRPSDFNF DDVRSYARLR TLEEGMAEKA SPDYYDRRMA QMHQNFIEIV EKSFNSYWLT DELVERLKKI PPDDFFELYL IFDEISFEYF DSEGEDVEAS EAMLNKIHSY LDRYERGDVN LDLKGF
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	31,297 Da
Sequence Positions	1-266, Full length protein
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 Q37883
Species	Bacillus phage B103 (Bacteriophage B103)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for B103_02 recombinant protein	MBS1339802 is a recombinant protein targeting B103_02. Also known as Recombinant Bacillus phage B103 DNA terminal protein (3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of B103_02 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 B103_02. It may not necessarily be applicable to this product.

NCBI GI #	22855150
NCBI GeneID	955358
NCBI Accession #	NP_690636.1
UniProt Primary Accession #	Q37883
UniProt Related Accession #	Q37883
GenBank Nucleotide #	NC_004165.1

NCBI Official Full Name	terminal protein
NCBI Official Symbol	B103_02
UniProt Protein Name	DNA terminal protein
UniProt Synonym Protein Names	Gene product 3; gp3; Protein p3
UniProt Gene Name	3
UniProt Synonym Gene Names	gp3
NCBI Protein Information	terminal protein
UniProt Comments for B103_02	Acts as a primer for DNA elongation during viral genomic replication. Acts as the small terminase protein during packaging. Recruits the phage DNA polymerase to the bacterial nucleoid. Primer terminal protein (TP) is covalently linked to the 5'-ends of both strands of the genome through a phosphodiester bond between the beta-hydroxyl group of a serine residue and the 5'-phosphate of the terminal deoxyadenylate (dAMP). To start replication, the DNA polymerase forms a heterodimer with a free TP that recognizes the replication origins at both 5' ends of the linear chromosome, and initiates replication using as primer the OH-group of Ser-232 of the TP. Since the polymerase initiates the replication on the second thymine, the TP-dAMP initiation product slides backwards to recover the template information of the first nucleotide.
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