DNA Polymerase (2), Partial (B103_01) Bacillus Phage B103 Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA polymerase (2), partial (B103_01), Recombinant Protein
Full Product Name	Recombinant Bacillus phage B103 DNA polymerase (2), partial
Product Gene Name	B103_01 recombinant protein
Product Synonym Names	DNA polymerase; EC=2.7.7.7; Early protein GP2
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	66,504 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 Q37882
Species	Bacillus phage B103 (Bacteriophage B103)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for B103_01 recombinant protein	MBS1477273 is a recombinant protein targeting B103_01. Also known as Recombinant Bacillus phage B103 DNA polymerase (2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of B103_01 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_01. It may not necessarily be applicable to this product.

NCBI GI #	22855149
NCBI GeneID	955357
NCBI Accession #	NP_690635.1
UniProt Primary Accession #	Q37882
UniProt Related Accession #	Q37882
GenBank Nucleotide #	NC_004165.1
NCBI Official Full Name	DNA polymerase
NCBI Official Symbol	B103_01

UniProt Protein Name	DNA polymerase
UniProt Synonym Protein Names	Early protein GP2
UniProt Gene Name	2
UniProt Entry Name	DPOL_BPB03
NCBI Protein Information	DNA polymerase
UniProt Comments for B103_01	Polymerase responsible for protein-primed viral DNA replication by strand displacement with high processivity and fidelity. To start replication, the DNA polymerase forms a heterodimer with a free primer terminal protein (TP), 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. This polymerase possesses three enzymatic activities: DNA synthesis (polymerase), primer terminal protein (TP) deoxynucleotidylation, which is the formation of a covalent linkage (phosphoester) between the hydroxyl group of a specific serine residue in TP and 5'-dAMP, a reaction directed by the second T at the 3' end, and 3' to 5' exonuclease activity. Exonuclease activity has a proofreading purpose.
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