Master Replication Protein (DNA-R) Banana Bunchy Top Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Master replication protein (DNA-R), Recombinant Protein
Full Product Name	Recombinant Banana bunchy top virus Master replication protein (DNA-R)
Product Gene Name	DNA-R recombinant protein
Product Synonym Gene Name	DNA-R
Sequence	MARYVVCWMF TINNPTTLPV MRDEIKYMVY QVERGQEGTR HVQGYVEMKR RSSLKQMRGF FPGAHLEKRK GSQEEARSYC MKEDTRIEGP FEFGSFKLSC NDNLFDVIQD MRETHKRPLE YLYDCPNTFD RSKDTLYRVQ AEMNKTKAMN SWRTSFSAWT SEVENIMAQP CHRRIIWVYG PNGGEGKTTY AKHLMKTRNA FYSPGGKSLD ICRLYNYEDI VIFDIPRCKE DYLNYGLLEE FKNGIIQSGK YEPVLKIVEY VEVIVMANFL PKEGIFSEDR IKLVSC
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	33,604 Da
Sequence Positions	1-286, 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 Q86567
Species	Banana bunchy top virus (isolate Autralia) (BBTV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DNA-R recombinant protein	MBS1329057 is a recombinant protein targeting DNA-R. Also known as Recombinant Banana bunchy top virus Master replication protein (DNA-R). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DNA-R 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 DNA-R. It may not necessarily be applicable to this product.

NCBI GI #	19744937
NCBI GeneID	963871
NCBI Accession #	NP_604483.1
UniProt Primary Accession #	Q86567
GenBank Nucleotide #	NC_003479.1

NCBI Official Full Name	replication initiation protein
NCBI Official Symbol	BBTVs1gp1
UniProt Protein Name	Master replication protein
Protein Family	Master replication protein
UniProt Gene Name	DNA-R
UniProt Synonym Gene Names	C1; M-Rep
NCBI Protein Information	replication initiation protein
UniProt Comments for DNA-R	Essential for the replication of all genomic viral ssDNA (trans-replication). The closed circular ssDNA genome is first converted to a superhelical dsDNA. Rep binds a specific hairpin at the genome origin of replication. Introduces an endonucleolytic nick within the conserved sequence 5'-A[GT]TATTAC-3' in the intergenic region of the genome, thereby initiating the rolling circle replication (RCR). Following cleavage, binds covalently to the 5'-phosphate of DNA as a tyrosyl ester. The cleavage gives rise to a free 3'-OH that serves as a primer for the cellular DNA polymerase. The polymerase synthesizes the (+) strand DNA by rolling circle mechanism. After one round of replication, a Rep-catalyzed nucleotidyl transfer reaction releases a circular single-stranded virus genome, thereby terminating the replication. Displays origin-specific DNA cleavage, nucleotidyl transferase, ATPase and helicase activities ().
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