# DNA Polymerase IV (dinB) Listeria Innocua Serovar 6a Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | DNA polymerase IV (dinB), Recombinant Protein |
| **Full Product Name** | Recombinant Listeria innocua serovar 6a DNA polymerase IV (dinB) |
| **Product Gene Name** | dinB recombinant protein |
| **Product Synonym Gene Name** | dinB |
| **Sequence** | MDTSRKIIHI DMDAFYASVE QRDHPEFRGK PLIIGGDPNK RGVVATCSYE ARKFGVHSAM PTRQAAKLCP NGIFIHGNMA HYVEVSNQIR EIFSRYTDII EPLSLDEAYL DVTENKKGMK SATMVAREIQ QTIYRELGLT ASAGVSFNKF IAKIASDFKK PAGITVVAPE EAEAFLEQIP VTKFYGVGKV TAEKLHRLGI ETGADLKKWS EWDLIRELHK HGYQLYRHVR GRSNNIVNPH RDRKSVGKET TFEFNVLDNR ILEQSLMKFA KKVEERLIKL QKHGKTVVLK LRYSDFTTIT KRLTLNEYTN DANQIYQAAA LLLRESYKGQ DSIRLIGLTV TNLKPVYFEN LRLEGL |
| **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** | 40,607 Da |
| **Sequence Positions** | 1-356, 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 Q92A40 |
| **Species** | Listeria innocua serovar 6a (strain CLIP 11262) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for dinB recombinant protein** | MBS1330520 is a recombinant protein targeting dinB. Also known as Recombinant Listeria innocua serovar 6a DNA polymerase IV (dinB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of dinB 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 dinB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499300792 |
| **NCBI Accession #** | WP_010991742.1 |
| **UniProt Primary Accession #** | Q92A40 |
| **GenBank Nucleotide #** | WP_010991742.1 |
| **NCBI Official Full Name** | DNA polymerase IV |

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| **UniProt Protein Name** | DNA polymerase IV |
| **Protein Family** | DNA polymerase |
| **UniProt Gene Name** | dinB |
| **UniProt Synonym Gene Names** | Pol IV |
| **UniProt Comments for dinB** | Poorly processive, error-prone DNA polymerase involved in untargeted mutagenesis. Copies undamaged DNA at stalled replication forks, which arise in vivo from mismatched or misaligned primer ends. These misaligned primers can be extended by PolIV. Exhibits no 3'-5' exonuclease (proofreading) activity. May be involved in translesional synthesis, in conjunction with the beta clamp from PolIII. |
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