DNA2-Like Helicase (DNA2) Chicken Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA2-like helicase (DNA2), Recombinant Protein
Full Product Name	Recombinant Chicken DNA2-like helicase (DNA2), partial
Product Gene Name	DNA2 recombinant protein
Product Synonym Gene Name	DNA2
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	111,679 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 Q5ZKG3
Species	Chicken
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DNA2 recombinant protein	MBS1334393 is a recombinant protein targeting DNA2. Also known as Recombinant Chicken DNA2-like helicase (DNA2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DNA2 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 DNA2. It may not necessarily be applicable to this product.

NCBI GI #	57529868
NCBI GeneID	423688
NCBI Accession #	NP_001006497.1
UniProt Primary Accession #	Q5ZKG3
UniProt Secondary Accession #	F1NWZ9
UniProt Related Accession #	Q5ZKG3
GenBank Nucleotide #	NM_001006497.1
NCBI Official Full Name	DNA replication ATP-dependent helicase/nuclease DNA2
NCBI Official Synonym Full Names	DNA replication helicase/nuclease 2

NCBI Official Symbol	DNA2
NCBI Official Synonym Symbols	DNA2L
UniProt Protein Name	DNA replication ATP-dependent helicase/nuclease DNA2
UniProt Synonym Protein Names	DNA replication ATP-dependent helicase-like homologIncluding the following 2 domains:DNA replication nuclease DNA2 (EC:3.1.-.-)DNA replication ATP-dependent helicase DNA2 (EC:3.6.4.12)
Protein Family	DNA replication ATP-dependent helicase/nuclease
UniProt Gene Name	DNA2
UniProt Synonym Gene Names	DNA2L
NCBI Protein Information	DNA replication ATP-dependent helicase/nuclease DNA2
UniProt Comments for DNA2	Key enzyme involved in DNA replication and DNA repair in nucleus and mitochondrion. Involved in Okazaki fragments processing by cleaving long flaps that escape FEN1: flaps that are longer than 27 nucleotides are coated by replication protein A complex (RPA), leading to recruit DNA2 which cleaves the flap until it is too short to bind RPA and becomes a substrate for FEN1. Also involved in 5'-end resection of DNA during double-strand break (DSB) repair by mediating the cleavage of 5'-ssDNA, while the 3'-ssDNA cleavage is prevented by the presence of RPA. Also involved in DNA replication checkpoint independently of Okazaki fragments processing. Possesses different enzymatic activities, such as single-stranded DNA (ssDNA)-dependent ATPase, 5'-3' helicase and endonuclease activities. While the ATPase and endonuclease activities are well-defined and play a key role in Okazaki fragments processing and DSB repair, the 5'-3' DNA helicase activity is subject to debate. According to various reports, the helicase activity is weak and its function remains largely unclear. Helicase activity may promote the motion of DNA2 on the flap, helping the nuclease function ().
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