# DNA Ligase (ligA) Ralstonia Solanacearum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | DNA ligase (ligA), Recombinant Protein |
| **Full Product Name** | Recombinant Ralstonia solanacearum DNA ligase (ligA), partial |
| **Product Gene Name** | ligA recombinant protein |
| **Product Synonym Gene Name** | ligA |
| **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** | 87,471 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 Q8XZJ7 |
| **Species** | Ralstonia solanacearum (strain GMI1000) (Pseudomonas solanacearum) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for ligA recombinant protein** | MBS1381352 is a recombinant protein targeting ligA. Also known as Recombinant Ralstonia solanacearum DNA ligase (ligA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of ligA 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 ligA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499310572 |
| **NCBI Accession #** | WP_011001347.1 |
| **UniProt Primary Accession #** | Q8XZJ7 |
| **GenBank Nucleotide #** | WP_011001347.1 |
| **NCBI Official Full Name** | DNA ligase (NAD(+)) LigA |
| **UniProt Protein Name** | DNA ligase |
| **UniProt Synonym Protein Names** | Polydeoxyribonucleotide synthase [NAD(+)] |
| **Protein Family** | DNA ligase |
| **UniProt Gene Name** | ligA |

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| **UniProt Comments for ligA** | DNA ligase that catalyzes the formation of phosphodiester linkages between 5'-phosphoryl and 3'-hydroxyl groups in double-stranded DNA using NAD as a coenzyme and as the energy source for the reaction. It is essential for DNA replication and repair of damaged DNA. |
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