# Ribulose Bisphosphate Carboxylase Large Chain (rbcL) Populus Alba Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Ribulose bisphosphate carboxylase large chain (rbcL), Recombinant Protein |
| **Full Product Name** | Recombinant Populus alba Ribulose bisphosphate carboxylase large chain (rbcL) |
| **Product Gene Name** | rbcL recombinant protein |
| **Product Synonym Gene Name** | rbcL |
| **Sequence** | PQTETKTGVG FKAGVKEYKL NYYTPEYETK DTDILAAFRV TPQPGVPPEE AGAAVAAESS TGTWTTVWTD GLTSLDRYKG RCYDIEPVAG EENQFIAYVA YPLDLFEEGS VTNMFTSIVG NVFGFKALRA LRLEDLRIPP AYTKTFQGPP HGIQVERDKL NKYGRPLLGC TIKPKLGLSA KNYGRAVYEC LRGGLDFTKD DENVNSQPFM RWRDRFLFCA EALYKAQTET GEIKGHYLNA TAGTCEEMMK RAIFARELGV PIVMHDYLTG GFTANTSLAH YCRDNGLLLH IHRAMHAVID RQKNHGIHFR VLAKALRMSG GDHIHSGTVV GKLEGERDIT LGFVDLLRDD FVEKDRSRGI YFTQDWVSLP GVLPVASGGI HVWHMPALTE IFGDDSVLQF GGGTLGHPWG NAPGAVANRV ALEACVQARN EGRDLAREGN EIIREASKWS PELAAACEVW KEIKFEFEAM DTL |
| **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** | 52,737 Da |
| **Sequence Positions** | 3-475, 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 Q14FE9 |
| **Species** | Populus alba (White poplar) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for rbcL recombinant protein** | MBS1482216 is a recombinant protein targeting rbcL. Also known as Recombinant Populus alba Ribulose bisphosphate carboxylase large chain (rbcL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of rbcL 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 rbcL. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 110227087 |
| **NCBI GeneID** | 4178172 |
| **NCBI Accession #** | YP_665566.1 |

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| **UniProt Primary Accession #** | Q14FE9 |
| **UniProt Related Accession #** | Q14FE9 |
| **GenBank Nucleotide #** | NC_008235.1 |
| **NCBI Official Full Name** | ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (chloroplast) |
| **NCBI Official Symbol** | rbcL |
| **UniProt Protein Name** | Ribulose bisphosphate carboxylase large chain |
| **Protein Family** | Ribulose 1,5-bisphosphate carboxylase |
| **UniProt Gene Name** | rbcL |
| **UniProt Synonym Gene Names** | RuBisCO large subunit |
| **NCBI Protein Information** | RuBisCO large subunit |
| **UniProt Comments for rbcL** | RuBisCO catalyzes two reactions: the carboxylation of D-ribulose 1,5-bisphosphate, the primary event in carbon dioxide fixation, as well as the oxidative fragmentation of the pentose substrate in the photorespiration process. Both reactions occur simultaneously and in competition at the same active site. |
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