# Chloroplast Envelope Membrane Protein (cemA) Cycas Taitungensis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Chloroplast envelope membrane protein (cemA), Recombinant Protein |
| **Full Product Name** | Recombinant Cycas taitungensis Chloroplast envelope membrane protein (cemA) |
| **Product Gene Name** | cemA recombinant protein |
| **Product Synonym Gene Name** | cemA |
| **Product Synonym Names** | Recombinant Chloroplast envelope membrane protein (cemA); Chloroplast envelope membrane protein |
| **Sequence** | MAKYKALASL RYLACLVFLP WGISISFQKG LEPWVTNWWN TGQSREFSDY LQEENALERF GEIEELFLLE RMVEDSSETH SQDLRIEIRK KTIQLVEMYN EDLIQIISHL LANFICFATP GAYFILGKEK LVVLNSWIQE LFHSLSDTMK AFSILLVTDL CIGFHSPHGW ELMIDSISEN YGFSHDEQRI SGLVSTFPVI SDTIFKYWIF RHLNRISPSL VVIYHSMNE |
| **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 degree C. For extended storage, store at -20 or -80 degree C. |
| **Molecular Weight** | 26,712 Da |
| **Sequence Positions** | 1-229 |
| **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. |
| **Chromosome Location** | NC_009618.1 (64596..65285) |
| **3D Structure** | ModBase 3D Structure for A6H5J0 |
| **Species** | Cycas taitungensis (Prince sago) (Cycas taiwaniana) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for cemA recombinant protein** | MBS1208315 is a recombinant protein targeting cemA. Also known as Recombinant Cycas taitungensis Chloroplast envelope membrane protein (cemA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of cemA 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 cemA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 150251482 |
| **NCBI GeneID** | 5309565 |
| **NCBI Accession #** | YP_001312215.1 |
| **UniProt Primary Accession #** | A6H5J0 |

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| **UniProt Related Accession #** | A6H5J0 |
| **GenBank Nucleotide #** | NC_009618.1 |
| **NCBI Official Full Name** | putative heme-binding protein |
| **NCBI Official Symbol** | cemA |
| **UniProt Protein Name** | Chloroplast envelope membrane protein |
| **Protein Family** | Chloroplast envelope membrane protein |
| **UniProt Gene Name** | cemA |
| **UniProt Entry Name** | CEMA_CYCTA |
| **NCBI Protein Information** | envelope membrane protein |
| **UniProt Comments for cemA** | Function: May be involved in proton extrusion. Indirectly promotes efficient inorganic carbon uptake into chloroplasts<br><br>By similarity. HAMAP-Rule MF_01308<br><br>Subcellular location: Plastid › chloroplast inner membrane; Multi-pass membrane protein<br><br>By similarity HAMAP-Rule MF_01308.<br><br>Sequence similarities: Belongs to the Cema family. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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