# Peptide Deformylase (def) Prochlorococcus Marinus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Peptide deformylase (def), Recombinant Protein |
| **Full Product Name** | Recombinant Prochlorococcus marinus Peptide deformylase (def) |
| **Product Gene Name** | def recombinant protein |
| **Product Synonym Gene Name** | def |
| **Sequence** | MARSFSQLAI NAEKQRTSLA VSKKPTDQPE LEIHTLGNSA LRQSAKRISK VDKNIRDLVK KMLHSMYAAK GIGLAAPQIG SQQQLLVIDL DIENSATPPI ILINPEITEF SATIDTYEEG CLSIPGVYLD VIRPSSIKVN FRDEMGRPKK INADGLLARC IQHEMDHLNG VLFVDRAINE EALNKELKEH GFKKKDVLRL CSD |
| **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** | 22,616 Da |
| **Sequence Positions** | 1-203, 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 Q7VED2 |
| **Species** | Prochlorococcus marinus (strain SARG / CCMP1375 / SS120) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for def recombinant protein** | MBS1306232 is a recombinant protein targeting def. Also known as Recombinant Prochlorococcus marinus Peptide deformylase (def). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of def 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 def. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 33239533 |
| **NCBI GeneID** | 1461460 |
| **NCBI Accession #** | NP_874475.1 |
| **UniProt Primary Accession #** | Q7VED2 |
| **UniProt Related Accession #** | Q7VED2 |
| **GenBank Nucleotide #** | NC_005042.1 |

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| **NCBI Official Full Name** | N-formylmethionyl-tRNA deformylase |
| **NCBI Official Symbol** | def |
| **UniProt Protein Name** | Peptide deformylase |
| **UniProt Synonym Protein Names** | Polypeptide deformylase |
| **Protein Family** | Peptide deformylase |
| **UniProt Gene Name** | def |
| **UniProt Synonym Gene Names** | PDF |
| **NCBI Protein Information** | N-formylmethionyl-tRNA deformylase |
| **UniProt Comments for def** | Removes the formyl group from the N-terminal Met of newly synthesized proteins. Requires at least a dipeptide for an efficient rate of reaction. N-terminal L-methionine is a prerequisite for activity but the enzyme has broad specificity at other positions. |
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