# Phospho-N-Acetylmuramoyl-Pentapeptide-Transferase (mraY) Synechococcus Sp. Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Phospho-N-acetylmuramoyl-pentapeptide-transferase (mraY), Recombinant Protein |
| **Full Product Name** | Recombinant Synechococcus sp. Phospho-N-acetylmuramoyl-pentapeptide-transferase (mraY), partial |
| **Product Gene Name** | mraY recombinant protein |
| **Sequence** | MTAQQAQRFP GTGLQWSLGL IALILAACLI SDGLSGGPQL SLPLLLAGAL SWLVCWIGVP RLRALKMGQV IRQEGPQSHQ SKSGTPTMGG LLLVPCGVVV GSLVSPGDPR LLPIGLVTLA FMVIGGIDDW RSLTKRHNTG LTPKGKLLLQ ALAAGLFLLW AGLHGAIPTA IALPWGWLLP IGLLIWPLGL FVFLAESNAT NLTDGLDGLA AGVGAIVLVG LSLQLMLRGN GGDPALAGYG AALAGAWLGF LLHNRHPARV FMGDTGSLAM GAALSAIALL SNSLWPLLLM GGLLLAESLS VILQVWVFKA TKGADGQGKR LLRMAPLHHH FELGGWSERR VVVSFWGISL LLVALGLVLV P |
| **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** | 37,704 Da |
| **Sequence Positions** | 1-361 |
| **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 A5GX19 |
| **Species** | Synechococcus sp. (strain RCC307) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for mraY recombinant protein** | MBS1247851 is a recombinant protein targeting mraY. Also known as Recombinant Synechococcus sp. Phospho-N-acetylmuramoyl-pentapeptide-transferase (mraY), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of mraY 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 mraY. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 500470103 |
| **NCBI Accession #** | WP_011936937.1 |
| **UniProt Primary Accession #** | A5GX19 |
| **GenBank Nucleotide #** | WP_011936937.1 |

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| **NCBI Official Full Name** | phospho-N-acetylmuramoyl-pentapeptide-transferase |
| **UniProt Protein Name** | Phospho-N-acetylmuramoyl-pentapeptide-transferase |
| **UniProt Synonym Protein Names** | UDP-MurNAc-pentapeptide phosphotransferase |
| **Protein Family** | Phospho-N-acetylmuramoyl-pentapeptide-transferase |
| **UniProt Gene Name** | mraY |
| **UniProt Comments for mraY** | First step of the lipid cycle reactions in the biosynthesis of the cell wall peptidoglycan. |
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