# Dehydrosqualene Synthase (crtM) Staphylococcus Aureus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Dehydrosqualene synthase (crtM), Recombinant Protein |
| **Full Product Name** | Recombinant Staphylococcus aureus Dehydrosqualene synthase (crtM) |
| **Product Gene Name** | crtM recombinant protein |
| **Product Synonym Gene Name** | crtM |
| **Sequence** | MTMMDMNFKY CHKIMKKHSK SFSYAFDLLP EDQRKAVWAI YAVCRKIDDS IDVYGDIQFL NQIKEDIQSI EKYPYEHHHF QSDRRIMMAL QHVAQHKNIA FQSFYNLIDT VYKDQHFTMF ETDAELFGYC YGVAGTVGEV LTPILSDHET HQTYDVARRL GESLQLINIL RDVGEDFDNE RIYFSKQRLK QYEVDIAEVY QNGVNNHYID LWEYYAAIAE KDFQDVMDQI KVFSIEAQPI IELAARIYIE ILDEVRQANY TLHERVFVDK RKKAKLFHEI NSKYHRI |
| **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** | 34,231 Da |
| **Sequence Positions** | 1-287, 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 Q8NUQ5 |
| **Species** | Staphylococcus aureus (strain MW2) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for crtM recombinant protein** | MBS1356760 is a recombinant protein targeting crtM. Also known as Recombinant Staphylococcus aureus Dehydrosqualene synthase (crtM). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of crtM 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 crtM. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446100452 |
| **NCBI Accession #** | WP_000178307.1 |
| **UniProt Primary Accession #** | Q8NUQ5 |
| **GenBank Nucleotide #** | WP_000178307.1 |
| **NCBI Official Full Name** | MULTISPECIES: dehydrosqualene synthase |

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| **UniProt Protein Name** | Dehydrosqualene synthase |
| **UniProt Synonym Protein Names** | 4,4'-diapophytoene synthase; DAP synthase; Diapophytoene synthase |
| **Protein Family** | Dehydrosqualene synthase |
| **UniProt Gene Name** | crtM |
| **UniProt Synonym Gene Names** | DAP synthase |
| **UniProt Comments for crtM** | Catalyzes the head-to-head condensation of two molecules of farnesyl diphosphate (FPP) into the colorless C(30) carotenoid dehydrosqualene (4,4'-diapophytoene). This is the initial step in the biosynthesis of staphyloxanthin, an orange carotenoid present in most staphylococci strains. |
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