# Lipid Ii:glycine Glycyltransferase (femX) Staphylococcus Aureus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Lipid II:glycine glycyltransferase (femX), Recombinant Protein |
| **Full Product Name** | Recombinant Staphylococcus aureus Lipid II:glycine glycyltransferase (femX) |
| **Product Gene Name** | femX recombinant protein |
| **Product Synonym Gene Name** | femX |
| **Sequence** | MEKMHITNQE HDAFVKSHPN GDLLQLTKWA ETKKLTGWYA RRIAVGRDGE VQGVAQLLFK KVPKLPYTLC YISRGFVVDY SNKEALNALL DSAKEIAKAE KAYAIKIDPD VEVDKGTDAL QNLKALGFKH KGFKEGLSKD YIQPRMTMIT PIDKNDDELL NSFERRNRSK VRLALKRGTT VERSDREGLK TFAELMKITG ERDGFLTRDI SYFENIYDAL HEDGDAELFL VKLDPKENIA KVNQELNELH AEIAKWQQKM ETSEKQAKKA QNMINDAQNK IAKNEDLKRD LEALEKEHPE GIYLSGALLM FAGSKSYYLY GASSNEFRDF LPNHHMQYTM MKYAREHGAT TYDFGGTDND PDKDSEHYGL WAFKKVWGTY LSEKIGEFDY ILNQPLYQLI EQVKPRLTKA KIKISRKLKR K |
| **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** | 48,536 Da |
| **Sequence Positions** | 1-421, 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 Q7A447 |
| **Species** | Staphylococcus aureus (strain N315) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for femX recombinant protein** | MBS1340446 is a recombinant protein targeting femX. Also known as Recombinant Staphylococcus aureus Lipid II:glycine glycyltransferase (femX). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of femX 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 femX. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446336007 |
| **NCBI Accession #** | WP_000413862.1 |
| **UniProt Primary Accession #** | Q7A447 |
| **GenBank Nucleotide #** | WP_000413862.1 |

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| **NCBI Official Full Name** | MULTISPECIES: lipid II:glycine glycyltransferase FemX |
| **UniProt Protein Name** | Lipid II:glycine glycyltransferase |
| **UniProt Synonym Protein Names** | Factor essential for expression of methicillin resistance X |
| **Protein Family** | Lipid II:glycine glycyltransferase |
| **UniProt Gene Name** | femX |
| **UniProt Synonym Gene Names** | fmhB |
| **UniProt Comments for femX** | Catalyzes the incorporation of the first glycine of the pentaglycine interpeptide bridge, which is characteristic of the S.aureus peptidoglycan. This glycine is added to the epsilon-amino group of the L-lysine of the membrane-bound lipid II intermediate (GlcNAc-(beta-1,4)-N-acetylmuramic acid(-L-Ala-D-iGln-L-Lys-D-Ala-D-Ala)-pyrophosphoryl-undecaprenol), using glycyl-tRNA(Gly) as donor, in a ribosome-independent mechanism. Involved in methicillin resistance (). |
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