# Glutamate--Trna Ligase (gltX) Mycobacterium Marinum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Glutamate--tRNA ligase (gltX), Recombinant Protein |
| **Full Product Name** | Recombinant Mycobacterium marinum Glutamate--tRNA ligase (gltX) |
| **Product Gene Name** | gltX recombinant protein |
| **Sequence** | MTSSSVRVRF CPSPTGIPHV GMVRTALFNW AYARHTGGTF VFRIEDTDAA RDSEESYLAL LDALRWLGLD WDEGPEVDGP YGPYRQSQRT EIYHDVVAKL LTAGEAYYAF STPEEVEARH IAAGRNPKLG YDNFDRQLTD SQRAAYLAEG RKPVVRLRMP DTDLAWHDLV RGPTTFAAGS VPDFALTRAT GDPLYTLVNP CDDALMKITH VLRGEDLLPS TPRQIALYQA LMRIGIAERV PEFAHLPTVL GEGTKKLSKR DPQSNLFAHR DRGFIPEGLL NYLALLGWAI ADDHDLFSLD EMVAAFDVAD VNSNPARFDQ KKADAINAEH IRMLDVADFT ARLRAYLDTH GHQLALDDAA FAVAAELVQT RIVVLEDAWA LLKFLNDDRY AIDPKAAAKE LGPDAGPVLD AAIAALDGAA DWTTADIEAA LKTALIEGMA LKPRKAFGPI RVAATGTTVS PPLFESLELL GRERSLGRLR SARDQVGSP |
| **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** | 53,715 Da |
| **Sequence Positions** | 1-489, 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 B2HIH4 |
| **Species** | Mycobacterium marinum (strain BAA-535 / M) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for gltX recombinant protein** | MBS1244714 is a recombinant protein targeting gltX. Also known as Recombinant Mycobacterium marinum Glutamate--tRNA ligase (gltX). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of gltX 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 gltX. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 229470595 |
| **NCBI Accession #** | B2HIH4.1 |
| **UniProt Primary Accession #** | B2HIH4 |
| **NCBI Official Full Name** | Glutamate--tRNA ligase |
| **UniProt Protein Name** | Glutamate--tRNA ligase |

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| **UniProt Synonym Protein Names** | Glutamyl-tRNA synthetase |
| **Protein Family** | Glutamate--tRNA ligase |
| **UniProt Gene Name** | gltX |
| **UniProt Synonym Gene Names** | GluRS |
| **UniProt Comments for gltX** | Catalyzes the attachment of glutamate to tRNA(Glu) in a two-step reaction: glutamate is first activated by ATP to form Glu-AMP and then transferred to the acceptor end of tRNA(Glu). |
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