# Glutamate--Trna Ligase (Gltx), Partial (gltX) Methanothermobacter Marburgensis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Glutamate--tRNA ligase (gltX), partial, Recombinant Protein |
| **Full Product Name** | Recombinant Methanothermobacter marburgensis Glutamate--tRNA ligase (gltX), partial |
| **Product Gene Name** | gltX recombinant protein |
| **Product Synonym Gene Name** | gltX; MTBMA_c05400 |
| **Product Synonym Names** | Glutamate--tRNA ligase; EC=6.1.1.17; Glutamyl-tRNA synthetase; GluRS |
| **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** | 63,238 Da |
| **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 Q50543 |
| **Species** | Methanothermobacter marburgensis (strain DSM 2133 / 14651 / NBRC 100331 / OCM 82 / Marburg) (Methanobacterium thermoautotrophicum) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for gltX recombinant protein** | MBS1336406 is a recombinant protein targeting gltX. Also known as Recombinant Methanothermobacter marburgensis Glutamate--tRNA ligase (gltX), partial. 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 #** | 304314301 |
| **NCBI GeneID** | 9704248 |
| **NCBI Accession #** | YP_003849448.1 |
| **UniProt Primary Accession #** | Q50543 |
| **UniProt Secondary Accession #** | D9PV87 |
| **UniProt Related Accession #** | Q50543 |
| **GenBank Nucleotide #** | NC_014408.1 |

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| **NCBI Official Full Name** | glutamyl-tRNA synthetase |
| **NCBI Official Symbol** | gltX |
| **UniProt Protein Name** | Glutamate--tRNA ligase |
| **UniProt Synonym Protein Names** | Glutamyl-tRNA synthetase |
| **Protein Family** | Glutamate--tRNA ligase |
| **UniProt Gene Name** | gltX |
| **UniProt Synonym Gene Names** | GluRS |
| **UniProt Entry Name** | SYE_METTM |
| **NCBI Protein Information** | glutamyl-tRNA synthetase |
| **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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