# Glutamyl-Q Trna (Asp) Synthetase (gluQ) Burkholderia Cepacia Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Glutamyl-Q tRNA (Asp) synthetase (gluQ), Recombinant Protein |
| **Full Product Name** | Recombinant Burkholderia cepacia Glutamyl-Q tRNA (Asp) synthetase |
| **Product Gene Name** | gluQ recombinant protein |
| **Sequence** | MNPGYRGRFA PSPTGPLHFG SLVGALASWL DARAHGGTWL VRIEDLDGPR TVPGAADDIL ATLAHFGMTP DEPPIWQSTR DAAYTAALER LVAAGLVYPC GCTRKEIADS LRAAHERHTT LAYPGTCRTG LHGKPARAWR LRVPDGNDAV VTFDDRWQHA QSQNLATEVG DFVLKRADGQ WAYQLAVVVD DADAGITHVV RGADLLDSTA RQIYLQRCLG VPTPAYLHVP VVVDANGEKL SKQTGATALE RDDPLPALRA AAAHLGLAAD GDRPVHTIDA FYAAATDAWA RRFGPRAG |
| **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** | 31,962 Da |
| **Sequence Positions** | 1-298, 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 B4E6D7 |
| **Species** | Burkholderia cepacia (strain J2315 / LMG 16656) (Burkholderia cenocepacia (strain J2315)) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for gluQ recombinant protein** | MBS1257044 is a recombinant protein targeting gluQ. Also known as Recombinant Burkholderia cepacia Glutamyl-Q tRNA (Asp) synthetase. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of gluQ 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 gluQ. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 493535658 |
| **NCBI Accession #** | WP_006489612.1 |
| **UniProt Primary Accession #** | B4E6D7 |
| **GenBank Nucleotide #** | WP_006489612.1 |
| **NCBI Official Full Name** | MULTISPECIES: tRNA glutamyl-Q(34) synthetase GluQRS |
| **UniProt Protein Name** | Glutamyl-Q tRNA(Asp) synthetase |

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| **Protein Family** | Glutamyl-Q tRNA(Asp) synthetase |
| **UniProt Gene Name** | gluQ |
| **UniProt Synonym Gene Names** | Glu-Q-RSs |
| **UniProt Comments for gluQ** | Catalyzes the tRNA-independent activation of glutamate in presence of ATP and the subsequent transfer of glutamate onto a tRNA(Asp). Glutamate is transferred on the 2-amino-5-(4,5-dihydroxy-2-cyclopenten-1-yl) moiety of the queuosine in the wobble position of the QUC anticodon. |
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