Glutamate--Trna Ligase 2 (gltX2) Thermotoga Maritima Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase 2 (gltX2), Recombinant Protein
Full Product Name	Recombinant Thermotoga maritima Glutamate--tRNA ligase 2 (gltX2)
Product Gene Name	gltX2 recombinant protein
Product Synonym Gene Name	gltX2
Sequence	MFITGAFFDI LEVGPKKIRR CFELVRVRFA PSPTGHLHVG GARTALFNWM FARKEGGKFI LRIEDTDTER SSREYEQQIL ESLRWCGLDW DEGPDIGGDF GPYRQSERLE IYREYAEKLV EDKRAYYVVY DKEDPSKELF TTYEYPHEYK EKGHPVTIKF KVLPGKTSFE DLLKGYMEFD NSTLEDFIIM KSNGFPTYNF AVVVDDHLMR ISHVFRGEDH LSNTPKQLMI YEAFGWEAPV FMHIPLILGS DRTPLSKRHG ATSVEHFRRE GILSRALMNY LALLGWRVEG DEIFTIEEKL QSFDPKDISN KGVIFDYQKL EWVNGKHMRR IDLEDLKREF IEWAKYAGKE IPSVDERYFS ETLRICREKV NTLSQLYDIM YPFMNDDYEY EKDYVEKFLK REEAERVLEE AKKAFKDLNS WNMEEIEKTL RDLSEKGLAS KKVVFQLIRG AVTGKLVTPG LFETIEVLGK ERTLKRLERT LQFLKKT
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	57,382 Da
Sequence Positions	1-487, 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 Q9X2I8
Species	Thermotoga maritima (strain 43589 / MSB8 / DSM 3109 / JCM 10099)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX2 recombinant protein	MBS1395194 is a recombinant protein targeting gltX2. Also known as Recombinant Thermotoga maritima Glutamate--tRNA ligase 2 (gltX2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gltX2 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 gltX2. It may not necessarily be applicable to this product.

NCBI GI #	15644618
NCBI GeneID	897796
NCBI Accession #	NP_229671.1
UniProt Primary Accession #	Q9X2I8

UniProt Related Accession #	Q9X2I8
GenBank Nucleotide #	NC_000853.1
NCBI Official Full Name	glutamyl-tRNA synthetase
NCBI Official Symbol	gltX
UniProt Protein Name	Glutamate--tRNA ligase 2
UniProt Synonym Protein Names	Glutamyl-tRNA synthetase 2
Protein Family	Glutamate--tRNA ligase
UniProt Gene Name	gltX2
UniProt Synonym Gene Names	GluRS 2
NCBI Protein Information	glutamyl-tRNA synthetase
UniProt Comments for gltX2	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).
Research Articles on gltX2	**1.** crystal structure of the Thermotoga maritima TM1875 was determined in complex with a Glu-AMP analogue at 2.0 A resolution.
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