



# Recombinant Glutamate--tRNA ligase (gltX)

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| <b>Product Code</b>      | CSB-MP721188SRW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Abbreviation</b>      | gltX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                                           |
| <b>Uniprot No.</b>       | Q67TJ2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen Species</b> | Symbiobacterium thermophilum (strain T / IAM 14863)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sequence</b>          | MTVRVRIAPS PTGPIHVGNV HTALFNWLFA RHHGGKFILR FEDTDLERSR<br>PEWEQVIFED LKWLGIDWDE GPDIGGPYGP YRQTERLDLY RKYAAQQLLES<br>GHVYKCYCTK EEEDADRREA QAAGRPYQYK GRCRDLTPEQ<br>QAAFEAEGRK PVLRFVRVPRG EVIRFNDLVR GPIEVPTDSI GDFIIMRANG<br>MPLYNFAVVV DDVTMNITHV LRGEHIPNT PVQILYQAL GFPVPEFGHL<br>GHMTNPERGK LSKRKGEAAI RDYREQGYLP EAMLNFMSSL GWTPPGAESG<br>REFLTKEELI REFDLSRVTK ASSVFDRNKL NWMNGVYIRK KSLEEFELA<br>LPFVVSAGLC TEEQARARWD WFKEVMAQVH ERVETLAEIP QHVDIFLKDE<br>IEMDEKAARK FLTEAVKPFF QRVSEGLRSV EWSVPAIEQL VRSIQEEMGL<br>TPKESFQPIR VAITGRTASP GLFETIYLIG RERVLERMAP YC |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Target Names</b>      | gltX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Names</b>     | Recommended name: Glutamate--tRNA ligase EC= 6.1.1.17 Alternative name(s): Glutamyl-tRNA synthetase Short name= GluRS                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Expression Region</b> | 1-482                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Length</b>    | full length protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.                                                                                                                                                                  |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                                           |