# Serine--Trna Ligase (serS) Yersinia Pestis Bv. Antiqua Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Serine--tRNA ligase (serS), Recombinant Protein |
| **Full Product Name** | Recombinant Yersinia pestis bv. Antiqua Serine--tRNA ligase (serS) |
| **Product Gene Name** | serS recombinant protein |
| **Product Synonym Gene Name** | serS |
| **Sequence** | MLDPNMLRNE LDAVAEKLAR RGFKLDVEVL RQQEERRKVL QVETESLQAE RNSRSKQIGA AKARGEDIEP LRLEVNALGE KLDAAKAELD KLQNEIRDLA LSIPNLPDDS VPVGKNENDN IEVSRWGEPR KYDFDVKDHV SLGEMAGGLD FAAAVKLTGA RFVVMKGQIA RMHRALSQFM LDLHTEKHGY LEAYVPYLVN HATLYGTGQL PKFGEDLFHT KPLAEESDNS NYALIPTAEV PLTNLVRDEI LEEDSLPLKL TAHTPCFRSE AGSYGRDTRG LIRMHQFDKV EMVQITRPED SMAALEELTG HAEKVLQLLE LPYRKVLLCT GDMGFGSSKT YDLEVWLPAQ DTYREISSCS NMWDFQARRM QARYRNKTDR KTRLVHTLNG SGLAVGRTLV AVLENYQQAD GRIQVPDVLR PYMGGLEYIG |
| **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** | 48,569 Da |
| **Sequence Positions** | 1-430, Full length |
| **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 Q1CA85 |
| **Species** | Yersinia pestis bv. Antiqua (strain Antiqua) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for serS recombinant protein** | MBS1353864 is a recombinant protein targeting serS. Also known as Recombinant Yersinia pestis bv. Antiqua Serine--tRNA ligase (serS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of serS 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 serS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 488140128 |
| **NCBI Accession #** | WP_002211336.1 |
| **UniProt Primary Accession #** | Q1CA85 |
| **GenBank Nucleotide #** | WP_002211336.1 |

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| **NCBI Official Full Name** | MULTISPECIES: serine--tRNA ligase |
| **UniProt Protein Name** | Serine--tRNA ligase |
| **UniProt Synonym Protein Names** | Seryl-tRNA synthetase |
| **Protein Family** | Serine--tRNA ligase |
| **UniProt Gene Name** | serS |
| **UniProt Synonym Gene Names** | SerRS |
| **UniProt Comments for serS** | Catalyzes the attachment of serine to tRNA(Ser). Is also able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyl-tRNA(Sec). |
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