# Serine--Trna Ligase (serS) Erwinia Carotovora Subsp. Atroseptica Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Serine--tRNA ligase (serS), Recombinant Protein |
| **Full Product Name** | Recombinant Erwinia carotovora subsp. atroseptica Serine--tRNA ligase (serS) |
| **Product Gene Name** | serS recombinant protein |
| **Product Synonym Gene Name** | serS |
| **Sequence** | MLDPNLLRNE LDAVAEKLLA RRGFKLDVET LRKQEERRKV LQVETESLQA ERNSRSKEIG AAKARGEDIE PLRREVNTLG EKLDTAKAEL DQLQNEIRDL ALTIPNLPDD SVPLGKDESQ NKEVTRWGEP RKYDFAVRDH VELGEMAGGL DFAAAVKLTG ARFVVMKGQI ARLHRALAQF MLDLHTQQHG YQEAYVPYLV NHATLYGTGQ LPKFGEDLFH TNPLSEEAES SQYALIPTAE VPLTNLVRDE ILDEESLPLK MTAHTPCFRS EAGSYGRDTR GLIRMHQFDK VELVQIVRPE DSMQALEELT THAETVLQLL KLPYRKVLLC TGDMGFGSTK TYDLEVWLPA QDTYREISSC SNMWDFQARR MQARCRSKSD KKTRLVHTLN GSGLAVGRTL VAVLENYQQA DGRIEIPEVL RPYMGGLEFI G |
| **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** | 48,776 Da |
| **Sequence Positions** | 1-431, 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 Q6D3V0 |
| **Species** | Erwinia carotovora subsp. atroseptica (Pectobacterium atrosepticum) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for serS recombinant protein** | MBS1320959 is a recombinant protein targeting serS. Also known as Recombinant Erwinia carotovora subsp. atroseptica 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 #** | 499406721 |
| **NCBI Accession #** | WP_011094188.1 |
| **UniProt Primary Accession #** | Q6D3V0 |
| **GenBank Nucleotide #** | WP_011094188.1 |

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| **NCBI Official Full Name** | 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). |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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