# Aspartate--Trna Ligase (aspS) Variovorax Paradoxus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Aspartate--tRNA ligase (aspS), Recombinant Protein |
| **Full Product Name** | Recombinant Variovorax paradoxus Aspartate--tRNA ligase (aspS), partial |
| **Product Gene Name** | aspS recombinant protein |
| **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** | 67,333 Da |
| **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 C5CWX8 |
| **Species** | Variovorax paradoxus (strain S110) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for aspS recombinant protein** | MBS1257332 is a recombinant protein targeting aspS. Also known as Recombinant Variovorax paradoxus Aspartate--tRNA ligase (aspS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of aspS 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 aspS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 506347177 |
| **NCBI Accession #** | WP_015866896.1 |
| **UniProt Primary Accession #** | C5CWX8 |
| **GenBank Nucleotide #** | WP_015866896.1 |
| **NCBI Official Full Name** | aspartate--tRNA ligase |
| **UniProt Protein Name** | Aspartate--tRNA(Asp/Asn) ligase |
| **UniProt Synonym Protein Names** | Aspartyl-tRNA synthetase |
| **Protein Family** | Aspartate--tRNA ligase |
| **UniProt Gene Name** | aspS |
| **UniProt Synonym Gene Names** | AspRS; ND-AspRS |

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| **UniProt Comments for aspS** | Aspartyl-tRNA synthetase with relaxed tRNA specificity since it is able to aspartylate not only its cognate tRNA(Asp) but also tRNA(Asn). Reaction proceeds in two steps: L-aspartate is first activated by ATP to form Asp-AMP and then transferred to the acceptor end of tRNA(Asp/Asn). |
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