# Trna (Ile)-Lysidine Synthase (tilS) Vibrio Vulnificus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | tRNA (Ile)-lysidine synthase (tilS), Recombinant Protein |
| **Full Product Name** | Recombinant Vibrio vulnificus tRNA (Ile)-lysidine synthase (tilS) |
| **Product Gene Name** | tilS recombinant protein |
| **Product Synonym Gene Name** | tilS |
| **Sequence** | MDALYSHFSQ VLEQQRKANT RLVVAFSGGV DSRVLLELAH RYAQEHLLPC CAVHVHHGLS HNADQWVQSC AAWCQEKNIP LTVERVQLDL TQGNSIEEEA RNARYQALRA HINADDLLLT GQHADDQVET FLLALKRGSG PKGLSSMAQQ MPFSQGRLIR PLLDVRRQEI ERCAHAIGLH WVEDESNQDT RYDRNFLRQQ ILPALSERWP SFAASVQRSA TLCAEQEALL DELLLPVFEQ LFGEDQSLAI TLLSQQSELA RFKLLRMWLA KLGHPMPTRH QLSLIWQQVA LSQADANPIL QLSQGQVRRF NQRLYLVADN QDLSAWHAPI TLNTPLALPD GLGTIELTVS RGFGQIALPE QSEALWISFN PEGLSAHPAE RGHSRKLKKL FQEYQVPSWL RRRTPILMYH QQVVAVAGLF VDRQFIGQDC ELFWRK |
| **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** | 49,637 Da |
| **Sequence Positions** | 1-436, 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 Q8DBE4 |
| **Species** | Vibrio vulnificus |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for tilS recombinant protein** | MBS1353982 is a recombinant protein targeting tilS. Also known as Recombinant Vibrio vulnificus tRNA (Ile)-lysidine synthase (tilS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of tilS 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 tilS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499392312 |
| **NCBI Accession #** | WP_011079779.1 |
| **UniProt Primary Accession #** | Q8DBE4 |
| **GenBank Nucleotide #** | WP_011079779.1 |

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| **NCBI Official Full Name** | tRNA(Ile)-lysidine synthetase |
| **UniProt Protein Name** | tRNA(Ile)-lysidine synthase |
| **UniProt Synonym Protein Names** | tRNA(Ile)-2-lysyl-cytidine synthase |
| **Protein Family** | tRNA(Ile)-lysidine synthase |
| **UniProt Gene Name** | tilS |
| **UniProt Comments for tilS** | Ligates lysine onto the cytidine present at position 34 of the AUA codon-specific tRNA(Ile) that contains the anticodon CAU, in an ATP-dependent manner. Cytidine is converted to lysidine, thus changing the amino acid specificity of the tRNA from methionine to isoleucine. |
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