# Tyrosine--Trna Ligase (tyrS) Staphylococcus Aureus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Tyrosine--tRNA ligase (tyrS), Recombinant Protein |
| **Full Product Name** | Recombinant Staphylococcus aureus Tyrosine--tRNA ligase (tyrS) |
| **Product Gene Name** | tyrS recombinant protein |
| **Product Synonym Gene Name** | tyrS |
| **Sequence** | MTNVLIEDLK WRGLIYQQTD EQGIEDLLNK EQVTLYCGAD PTADSLHIGH LLPFLTLRRF QEHGHRPIVL IGGGTGMIGD PSGKSEERVL QTEEQVDKNI EGISKQMHNI FEFGTDHGAV LVNNRDWLGQ ISLISFLRDY GKHVGVNYML GKDSIQSRLE HGISYTEFTY TILQAIDFGH LNRELNCKIQ VGGSDQWGNI TSGIELMRRM YGQTDAYGLT IPLVTKSDGK KFGKSESGAV WLDAEKTSPY EFYQFWINQS DEDVIKFLKY FTFLGKEEID RLEQSKNEAP HLREAQKTLA EEVTKFIHGE DALNDAIRIS QALFSGDLKS LSAKELKDGF KDVPQVTLSN DTTNIVEVLI ETGISPSKRQ AREDVNNGAI YINGERQQDV NYALAPEDKI DGEFTIIRRG KKKYFMVNYQ |
| **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** | 47,598 Da |
| **Sequence Positions** | 1-420, 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 Q6GFX9 |
| **Species** | Staphylococcus aureus (strain MRSA252) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for tyrS recombinant protein** | MBS1281835 is a recombinant protein targeting tyrS. Also known as Recombinant Staphylococcus aureus Tyrosine--tRNA ligase (tyrS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of tyrS 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 tyrS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446108174 |
| **NCBI Accession #** | WP_000186029.1 |
| **UniProt Primary Accession #** | Q6GFX9 |
| **GenBank Nucleotide #** | WP_000186029.1 |

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| **NCBI Official Full Name** | MULTISPECIES: tyrosine--tRNA ligase |
| **UniProt Protein Name** | Tyrosine--tRNA ligase |
| **UniProt Synonym Protein Names** | Tyrosyl-tRNA synthetase |
| **Protein Family** | Tyrosine--tRNA ligase |
| **UniProt Gene Name** | tyrS |
| **UniProt Synonym Gene Names** | TyrRS |
| **UniProt Comments for tyrS** | Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr). |
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