# UDP-N-Acetylmuramate--L-Alanine Ligase (murC) Alkaliphilus Metalliredigens Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | UDP-N-acetylmuramate--L-alanine ligase (murC), Recombinant Protein |
| **Full Product Name** | Recombinant Alkaliphilus metalliredigens UDP-N-acetylmuramate--L-alanine ligase (murC) |
| **Product Gene Name** | murC recombinant protein |
| **Sequence** | MIAFNMDEHQ LKHIHLIGIG GISMSAIAEI LLENGYHISG SDMKESNLTH KLRDHGAEIF IGHASENIQN PDLVVYTAAV KADNPERIRA EELGIPLADR AEMLGQIMKK YEKAIAVAGS HGKTTTTSLI SLLMEYSNLD PTILVGGELD EIGGNIKIGQ SQHFITEACE YVESFLKFYP FIGIILNIDE DHLDYFKDIE HIKSAFKKFA QRIPKEGFLI ASYDDAHVRE ISRDLDCHVI TYGIKTKSQF MAHNIEFSFE GLPSFDVSFE GKTIGSFSLN IPGLHNVYNS LAAIATTYVL GVDPVAISKH ITRFKGIHRR FDLLGEVKGA KVIDDYAHHP VEIRATLEAA KKYPHKKIWC VFQPHTYSRT QALLKDFAKS FYLADHVIIT DIYAAREKDE GIVNSQGLVN LIVQEHPAQY IGGFEEISRY LYDHIEAGDI VLTMGAGDVY LIAQMLLAEK |
| **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** | 51,464 Da |
| **Sequence Positions** | 1-460, 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 A6TJM2 |
| **Species** | Alkaliphilus metalliredigens (strain QYMF) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for murC recombinant protein** | MBS1218267 is a recombinant protein targeting murC. Also known as Recombinant Alkaliphilus metalliredigens UDP-N-acetylmuramate--L-alanine ligase (murC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of murC 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 murC. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 500674160 |
| **NCBI Accession #** | WP_011971299.1 |
| **UniProt Primary Accession #** | A6TJM2 |
| **GenBank Nucleotide #** | WP_011971299.1 |

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| **NCBI Official Full Name** | UDP-N-acetylmuramate--L-alanine ligase |
| **UniProt Protein Name** | UDP-N-acetylmuramate--L-alanine ligase |
| **UniProt Synonym Protein Names** | UDP-N-acetylmuramoyl-L-alanine synthetase |
| **Protein Family** | Muscle-related coiled-coil protein |
| **UniProt Gene Name** | murC |
| **UniProt Comments for murC** | Cell wall formation. |
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