# Proteasome-Associated Atpase (Arc), Partial (arc) Sanguibacter Keddieii Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Proteasome-associated ATPase (arc), partial, Recombinant Protein |
| **Full Product Name** | Recombinant Sanguibacter keddieii Proteasome-associated ATPase (arc), partial |
| **Product Gene Name** | arc recombinant protein |
| **Product Synonym Gene Name** | arc; Sked_20900 |
| **Product Synonym Names** | Proteasome-associated ATPase; AAA ATPase forming ring-shaped complexes; ARC; Proteasomal ATPase |
| **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** | 63,074 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 D1BHU2 |
| **Species** | Sanguibacter keddieii (strain 51767 / DSM 10542 / NCFB 3025 / ST-74) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for arc recombinant protein** | MBS1162943 is a recombinant protein targeting arc. Also known as Recombinant Sanguibacter keddieii Proteasome-associated ATPase (arc), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of arc 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 arc. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 269795391 |
| **NCBI GeneID** | 8633725 |
| **NCBI Accession #** | YP_003314846.1 |
| **UniProt Primary Accession #** | D1BHU2 |
| **UniProt Related Accession #** | D1BHU2 |
| **GenBank Nucleotide #** | NC_013521.1 |
| **NCBI Official Full Name** | ATP-dependent 26S proteasome regulatory subunit |

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| **NCBI Official Symbol** | Sked_20900 |
| **UniProt Protein Name** | Proteasome-associated ATPase |
| **UniProt Synonym Protein Names** | AAA ATPase forming ring-shaped complexes; Proteasomal ATPase |
| **Protein Family** | AAA ATPase forming ring-shaped complexes |
| **UniProt Gene Name** | arc |
| **UniProt Synonym Gene Names** | Sked_20900; ARC |
| **UniProt Entry Name** | ARC_SANKS |
| **NCBI Protein Information** | ATP-dependent 26S proteasome regulatory subunit |
| **UniProt Comments for arc** | ATPase which is responsible for recognizing, binding, unfolding and translocation of pupylated proteins into the bacterial 20S proteasome core particle. May be essential for opening the gate of the 20S proteasome via an interaction with its C-terminus, thereby allowing substrate entry and access to the site of proteolysis. Thus, the C-termini of the proteasomal ATPase may function like a 'key in a lock' to induce gate opening and therefore regulate proteolysis. |
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