# Pup--Protein Ligase (pafA) Streptomyces Avermitilis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Pup--protein ligase (pafA), Recombinant Protein |
| **Full Product Name** | Recombinant Streptomyces avermitilis Pup--protein ligase (pafA) |
| **Product Gene Name** | pafA recombinant protein |
| **Product Synonym Gene Name** | pafA |
| **Sequence** | MDRRIFGLEN EYGVTCTFRG QRRLSPDEVA RYLFRRVVSW GRSSNVFLRN GARLYLDVGS HPEYATPECD NVTELVTHDK AGERILEGLL VDAERRLHEE GIAGDVYLFK NNTDSAGNSY GCHENYLVAR HGEFSRLADI LIPFLVTRQL LCGAGKVLQT PRGAVYCVSQ RAEHIWEGVS SATTRSRPII NTRDEPHADA ERYRRLHVIV GDSNMSETTM LLKVGATDLV LRMIEAGTVM RDLTLENPIR AIREVSHDIT GRRKVRLASG REASALEVQR EYYEKAVDFC ERRGIRTGTV EQVLELWGRT LDAIEAEDLD RIGTEIDWVM KYKLIERYRA KHNMTMSHPR VAQIDLAYHD IHRRRGLYYL LEKRGQATRI CNDLKIFEGK SVPPQTTRAR LRGDFIRRAQ EQRRDFTVDW VHLKLNDQAQ RTVLCKDPFR SVDDRVEKLI AGM |
| **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** | 52,172 Da |
| **Sequence Positions** | 1-453, 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 Q828I4 |
| **Species** | Streptomyces avermitilis |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for pafA recombinant protein** | MBS1306059 is a recombinant protein targeting pafA. Also known as Recombinant Streptomyces avermitilis Pup--protein ligase (pafA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of pafA 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 pafA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499296827 |
| **NCBI Accession #** | WP_010988085.1 |
| **UniProt Primary Accession #** | Q828I4 |
| **GenBank Nucleotide #** | WP_010988085.1 |

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| **NCBI Official Full Name** | Pup--protein ligase |
| **UniProt Protein Name** | Pup--protein ligase |
| **UniProt Synonym Protein Names** | Proteasome accessory factor A |
| **Protein Family** | Alkaline phosphatase |
| **UniProt Gene Name** | pafA |
| **UniProt Comments for pafA** | Catalyzes the covalent attachment of the prokaryotic ubiquitin-like protein modifier Pup to the proteasomal substrate proteins, thereby targeting them for proteasomal degradation. This tagging system is termed pupylation. The ligation reaction involves the side-chain carboxylate of the C-terminal glutamate of Pup and the side-chain amino group of a substrate lysine. |
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