# Gtpase Obg (obg) Bacillus Amyloliquefaciens Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | GTPase obg (obg), Recombinant Protein |
| **Full Product Name** | Recombinant Bacillus amyloliquefaciens GTPase obg (obg) |
| **Product Gene Name** | obg recombinant protein |
| **Sequence** | MFVDQVKVYV KGGDGGNGMV AFRREKYVPK GGPAGGDGGN GGDVVFEVDE GLRTLMDFRY QRHFKAIRGE HGMSKNQHGR NADDMVVKVP PGTVVTDDDT KQVIADLTEH GQRAVIAKGG RGGRGNTRFA TPANPAPQLS EHGEPGKERY IVLELKVLAD VGLVGFPSVG KSTLLSVVSS AKPKIADYHF TTLVPNLGMV ETDDGRSFVM ADLPGLIEGA HEGVGLGHQF LRHIERTRVI VHVIDMSAME GRDPYEDYVT INQELSEYNL RLTERPQIIV ANKMDMPEAA ENLKAFKEKL QDDHPVFPIS AVTREGLRDL LFEVANQLET TPEFPLYDEE ELAENRVMYT MEDEEIPFNI TRDPDGAFVL SGDSLERLFK MTDFSRDESV KRFARQMRGM GVDEALRERG AKDGDIIRLL EFEFEFID |
| **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** | 47,662 Da |
| **Sequence Positions** | 1-428, Full length |
| **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 A7Z781 |
| **Species** | Bacillus amyloliquefaciens (strain FZB42) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for obg recombinant protein** | MBS1227306 is a recombinant protein targeting obg. Also known as Recombinant Bacillus amyloliquefaciens GTPase obg (obg). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of obg 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 obg. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 494650228 |
| **NCBI Accession #** | WP_007408172.1 |
| **UniProt Primary Accession #** | A7Z781 |
| **GenBank Nucleotide #** | WP_007408172.1 |
| **NCBI Official Full Name** | MULTISPECIES: GTPase ObgE |

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| **UniProt Protein Name** | GTPase Obg |
| **UniProt Synonym Protein Names** | GTP-binding protein Obg |
| **Protein Family** | GTPase |
| **UniProt Gene Name** | obg |
| **UniProt Comments for obg** | An essential GTPase which binds GTP, GDP and possibly (p)ppGpp with moderate affinity, with high nucleotide exchange rates and a fairly low GTP hydrolysis rate. Plays a role in control of the cell cycle, stress response, ribosome biogenesis and in those bacteria that undergo differentiation, in morphogenesis control. |
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