# Gtpase Obg (obg) Shigella Boydii Serotype 4 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | GTPase obg (obg), Recombinant Protein |
| **Full Product Name** | Recombinant Shigella boydii serotype 4 GTPase obg (obg) |
| **Product Gene Name** | obg recombinant protein |
| **Product Synonym Gene Name** | obg |
| **Sequence** | MKFVDEASIL VVAGDGGNGC VSFRREKYIP KGGPDGGDGG DGGDVWMEAD ENLNTLIDYR FEKSFRAERG QNGASRDCTG KRGKDVTIKV PVGTRVIDQG TGETMGDMTK HGQRLLVAKG GWHGLGNTRF KSSVNRTPRQ KTNGTPGDKR ELLLELMLLA DVGMLGMPNA GKSTFIRAVS AAKPKVADYP FTTLVPSLGV VRMDNEKSFV VADIPGLIEG AAEGAGLGIR FLKHLERCRV LLHLIDIDPI DGTDPVENAR IIISELEKYS QDLAAKPRWL VFNKIDLLDK AEAEEKAKAI AEALGWEDKY YLISAASGLG VKDLCWDVMT FIIENPVVQA EEAKQPEKVE FMWDDYHRQQ LEEIAEEDDE DWDDDWDEDD EEGVEFIYKR |
| **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** | 43,228 Da |
| **Sequence Positions** | 1-390, 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 Q31W60 |
| **Species** | Shigella boydii serotype 4 (strain Sb227) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for obg recombinant protein** | MBS1379069 is a recombinant protein targeting obg. Also known as Recombinant Shigella boydii serotype 4 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 #** | 446596215 |
| **NCBI Accession #** | WP_000673561.1 |
| **UniProt Primary Accession #** | Q31W60 |
| **GenBank Nucleotide #** | WP_000673561.1 |

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| **NCBI Official Full Name** | MULTISPECIES: GTPase ObgE |
| **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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