# Transcription Elongation Factor Grea (greA) Chlorobium Chlorochromatii Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Transcription elongation factor GreA (greA), Recombinant Protein |
| **Full Product Name** | Recombinant Chlorobium chlorochromatii Transcription elongation factor GreA (greA) |
| **Product Gene Name** | greA recombinant protein |
| **Product Synonym Gene Name** | greA |
| **Sequence** | MNDRIYLTND GYNRLKEELY VLVHQTRKEV LEKIAEARAH GDLSENAEYD AAREEQSQIE ARIGDLESKL SAATILDPKQ IKTDKVYILT SVKLRNLDNP DEIIEYTLVS SEEADTDAGK ISVRSPVGRS LIGKTVGAKV TIVVPKGELH YEILEIFVKP |
| **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** | 17,968 Da |
| **Sequence Positions** | 1-160, 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 Q3ATA7 |
| **Species** | Chlorobium chlorochromatii (strain CaD3) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for greA recombinant protein** | MBS1279126 is a recombinant protein targeting greA. Also known as Recombinant Chlorobium chlorochromatii Transcription elongation factor GreA (greA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of greA 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 greA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499680807 |
| **NCBI Accession #** | WP_011361541.1 |
| **UniProt Primary Accession #** | Q3ATA7 |
| **GenBank Nucleotide #** | WP_011361541.1 |
| **NCBI Official Full Name** | transcription elongation factor GreA |

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| **UniProt Protein Name** | Transcription elongation factor GreA |
| **UniProt Synonym Protein Names** | Transcript cleavage factor GreA |
| **Protein Family** | Transcription elongation factor |
| **UniProt Gene Name** | greA |
| **UniProt Comments for greA** | Necessary for efficient RNA polymerase transcription elongation past template-encoded arresting sites. The arresting sites in DNA have the property of trapping a certain fraction of elongating RNA polymerases that pass through, resulting in locked ternary complexes. Cleavage of the nascent transcript by cleavage factors such as GreA or GreB allows the resumption of elongation from the new 3'terminus. GreA releases sequences of 2 to 3 nucleotides. |
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