# ATP Synthase Subunit B (atpF) Bacteroides Thetaiotaomicron Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | ATP synthase subunit b (atpF), Recombinant Protein |
| **Full Product Name** | Recombinant Bacteroides thetaiotaomicron ATP synthase subunit b (atpF) |
| **Product Gene Name** | atpF recombinant protein |
| **Sequence** | MSLLLPDSGL LFWMFVAFGV VFVILAKYGF PIIIKMVEGR KTYIDQSLEV AREANAQLAH LKEEGEALVA AANKEQGRIL KEAMEERDKI VHEARKQAEI AAQKELDAVK QQIQIEKDEA IRDIRRQVAV LSVDIAEKVL RKNLQDKESQ MGMIDRMLDE VLTPNKN |
| **Host** | Cell Free Expression |
| **Form/Format** | Liquid containing glycerol |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.<br>Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. |
| **Molecular Weight** | 18,973 Da |
| **Sequence Positions** | 1-167aa; full length protein |
| **3D Structure** | ModBase 3D Structure for Q8A9U9 |
| **Species** | Bacteroides thetaiotaomicron (strain 29148 / DSM 2079 / 10582 / E50 / VPI-5482) |
| **Product Categories/Family for atpF recombinant protein** | Transmembrane Protein |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Application Notes for atpF recombinant protein** | This is a recombinant transmembrane protein expressed in a cell-free expression system. |
| **Related Product Information for atpF recombinant protein** | MBS7009537 is a recombinant protein targeting atpF. Also known as Recombinant Bacteroides thetaiotaomicron ATP synthase subunit b (atpF). Host: Cell Free Expression. |
| **Other Notes** | Small volumes of atpF 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 atpF. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 29346126 |
| **NCBI GeneID** | 1074307 |
| **NCBI Accession #** | NP_809629.1 |
| **UniProt Primary Accession #** | Q8A9U9 |
| **UniProt Related Accession #** | Q8A9U9 |
| **GenBank Nucleotide #** | NC_004663.1 |
| **NCBI Official Full Name** | ATP synthase subunit B |

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| **NCBI Official Symbol** | BT_0716 |
| **UniProt Protein Name** | ATP synthase subunit b |
| **UniProt Synonym Protein Names** | ATP synthase F(0) sector subunit b |
| **Protein Family** | ATP synthase |
| **UniProt Gene Name** | atpF |
| **UniProt Synonym Gene Names** | F-ATPase subunit b |
| **UniProt Entry Name** | ATPF_BACTN |
| **NCBI Protein Information** | ATP synthase subunit B |
| **UniProt Comments for atpF** | F1F0 ATP synthase produces ATP from ADP in the presence of a proton or sodium gradient. F-type ATPases consist of two structural domains, F1 containing the extramembraneous catalytic core and F0 containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. |
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