# F-Box Only Protein 7 (FBXO7) Mouse Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | F-box only protein 7 (Fbxo7), Recombinant Protein |
| **Full Product Name** | Recombinant Mouse F-box only protein 7 (Fbxo7) |
| **Product Gene Name** | Fbxo7 recombinant protein |
| **Product Synonym Gene Name** | Fbxo7 |
| **Sequence** | MKLRVRLQKR TQPLEVPESE PTLGQLRAHL SQVLLPTLGF SSDTRFAITL NNKDALTGDE ETLASYGIVS GDLICLVLED DMPAPNLPSS TDTEHSSLQD NDQPSLAATP SQTNIPDEQG TDSSQGQATP FDAWTDDSME GPSQNVEAES IQDAMSMEEV SGFHPLEPML CNETEDGQVP HSLETLYQSA GCSNISDALI VLVHLLMLES GYIPQGTETK AVTMPEKWKS SGVYKLQYTH PLCEGGFAVL TCVPLGNLII INATIKVNGG IKNVKSVQLQ PGSYVAAGVE PGESAAKVYK DLKKLSRLFK DQLVYPLLAF TRQVLNLPDV FGLVVLPLEL KLRIFRLLDV HSVLALSAVC HDLLIASNDP LLWRCLYLRD FRDGTVRGPD TDWKELYRKK HIQRKEAQRM RHAMFLPSAH PIPFCPIPVY PRAYLPTSLL PPGIIGGEYD ERPILPSVGD PVTSLIPRPG ELPGQFRPLR PRFDPVDPLP GPHSLLPGRA IPNNRFPFRP GRGRSADSRL PFL |
| **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** | 57,649 Da |
| **Sequence Positions** | 1-523, 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 Q3U7U3 |
| **Species** | Mouse |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Fbxo7 recombinant protein** | This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of the ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. This protein belongs to the Fbxs class and it may play a role in regulation of hematopoiesis. Alternatively spliced transcript variants of this gene have been identified with the full-length natures of only some variants being determined. |
| **Other Notes** | Small volumes of Fbxo7 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. |
| **Searchable Terms for Fbxo7 purchase** | MBS1287002 is a recombinant protein targeting Fbxo7. Also known as Recombinant Mouse F-box only protein 7 (Fbxo7). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Fbxo7. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 1102627099 |
| **NCBI GeneID** | 69754 |
| **NCBI Accession #** | NP_001334080.1 |
| **UniProt Primary Accession #** | Q3U7U3 |
| **UniProt Secondary Accession #** | Q3UBC1; Q8K0A5 |
| **UniProt Related Accession #** | Q3U7U3 |
| **GenBank Nucleotide #** | NM_001347151.1 |
| **NCBI Official Full Name** | F-box only protein 7 isoform 3 |
| **NCBI Official Synonym Full Names** | F-box protein 7 |
| **NCBI Official Symbol** | Fbxo7 |
| **NCBI Official Synonym Symbols** | C85118; AI117679; AW260462; 2410015K21Rik; A230052G17Rik |
| **UniProt Protein Name** | F-box only protein 7 |
| **Protein Family** | F-box only protein |
| **UniProt Gene Name** | Fbxo7 |
| **NCBI Protein Information** | F-box only protein 7 |
| **UniProt Comments for Fbxo7** | Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Recognizes BIRC2 and DLGAP5. Plays a role downstream of PINK1 in the clearance of damaged mitochondria via selective autophagy (mitophagy) by targeting PRKN to dysfunctional depolarized mitochondria. Promotes MFN1 ubiquitination (). |
| **Research Articles on Fbxo7** | **1.** Fbxo7-deficient immature thymocytes failed to undergo expansion in the thymus due to a lack of Cdk6 activity, while mature T cells showed enhanced proliferative capacity upon T-cell receptor engagement due to reduced p27 levels. These studies reveal differential cell cycle regulation by Fbxo7 at different stages in T-cell development. |
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