# Transcription Factor E2F6 (E2F6) Mouse Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Transcription factor E2F6 (E2f6), Recombinant Protein |
| **Full Product Name** | Recombinant Mouse Transcription factor E2F6 (E2f6) |
| **Product Gene Name** | E2f6 recombinant protein |
| **Sequence** | MSQQRTARRQ PSLLVDPAQE TVRRRCRDPI NVENLLPSKI RINLEENVQY VSMRKALKVK RPRFDVSLVY LTRKFMDLVR SAPGGILDLN KVATKLGVRK RRVYDITNVL DGIELVEKKS KNHIRWIGSD LNNFGAAPQQ KKLQAELSDL SAMEDALDEL IKDCAQQLLE LTDDKENERL AYVTYQDIHG IQAFHEQIVI AVKAPEETRL DVPAPREDSI TVHIRSTKGP IDVYLCEVEQ NHSNGKTNDG IGASPSKSSH PQCPEKEDEP PQ |
| **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** | 30,852 Da |
| **Sequence Positions** | 1-272, 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 O54917 |
| **Species** | Mouse |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for E2f6 recombinant protein** | This gene encodes a member of the E2F transcription factor protein family. E2F family members play a crucial role in control of the cell cycle and of the action of tumor suppressor proteins. They are also a target of the transforming proteins of small DNA tumor viruses. Many E2F proteins contain several evolutionarily conserved domains: a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. The encoded protein of this gene is atypical because it lacks the transactivation and tumor suppressor protein association domains. It contains a modular suppression domain and is an inhibitor of E2F-dependent transcription. The protein is part of a multimeric protein complex that contains a histone methyltransferase and the transcription factors Mga and Max. Multiple transcript variants have been reported for this gene, but it has not been clearly demonstrated that they encode valid isoforms. |
| **Other Notes** | Small volumes of E2f6 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 E2f6 purchase** | MBS1204778 is a recombinant protein targeting E2f6. Also known as Recombinant Mouse Transcription factor E2F6 (E2f6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E2f6. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 237681138 |
| **NCBI GeneID** | 50496 |
| **NCBI Accession #** | NP_150373.2 |
| **UniProt Primary Accession #** | O54917 |
| **UniProt Secondary Accession #** | Q8K456 |
| **UniProt Related Accession #** | O54917 |
| **GenBank Nucleotide #** | NM_033270.2 |
| **NCBI Official Full Name** | transcription factor E2F6 |
| **NCBI Official Synonym Full Names** | E2F transcription factor 6 |
| **NCBI Official Symbol** | E2f6 |
| **NCBI Official Synonym Symbols** | EMA; E2F6a; E2F6b; AI462434 |
| **UniProt Protein Name** | Transcription factor E2F6 |
| **UniProt Synonym Protein Names** | E2F-binding site-modulating activity protein; EMA |
| **Protein Family** | Transcription factor |
| **UniProt Gene Name** | E2f6 |
| **UniProt Synonym Gene Names** | E2F-6; EMA |
| **NCBI Protein Information** | transcription factor E2F6 |
| **UniProt Comments for E2f6** | Inhibitor of E2F-dependent transcription. Binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3'. Has a preference for the 5'-TTTCCCGC-3' E2F recognition site. E2F6 lacks the transcriptional activation and pocket protein binding domains. Appears to regulate a subset of E2F-dependent genes whose products are required for entry into the cell cycle but not for normal cell cycle progression. May silence expression via the recruitment of a chromatin remodeling complex containing histone H3-K9 methyltransferase activity. Overexpression delays the exit of cells from the S-phase (). |
| **Research Articles on E2f6** | **1.** These data reveal a novel interplay between the E2F pathway, beta2-adrenergic/PKA/PDE4D, and ERK/c-Src axis in fine tuning the pathological hypertrophic growth response. |
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