T-Box Transcription Factor TBX2 (TBX2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	T-box transcription factor TBX2 (Tbx2), Recombinant Protein
Full Product Name	Recombinant Mouse T-box transcription factor TBX2 (Tbx2)
Product Gene Name	Tbx2 recombinant protein
Product Synonym Gene Name	Tbx2
Sequence	MREPALAASA MAYHPFHAPR PADFPMSAFL AAAQPSFFPA LALPPGALGK PLPDPGLAGA AAAAAAAAAA AEAGLHVSAL GPHPPAAHLR SLKSLEPEDE VEDDPKVTLE AKELWDQFHK LGTEMVITKS GRRMFPPFKV RVSGLDKKAK YILLMDIVAA DDCRYKFHNS RWMVAGKADP EMPKRMYIHP DSPATGEQWM AKPVAFHKLK LTNNISDKHG FTILNSMHKY QPRFHIVRAN DILKLPYSTF RTYVFPETDF IAVTAYQNDK ITQLKIDNNP FAKGFRDTGN GRREKRKQLT LPTLRLYEEH CKPERDGAES DASSCDPPPA REPPPSPSAA PSPLRLHRAR AEEKPGAADS DPEPERTGEE RSAAPLGRSP SRDASPARLT EPERSRERRS PERCSKEPTE GGGDGPFSLR SLEKERPEAR RKDEGRKDVG EGKEPSLAPL VVQTDSASPL GAGHLPGLAF SSHLHGQQFF GPLGAGQPLF LHPGQFAMGP GAFSAMGMGH LLASVAGGSG SSGGAGPGTA AGLDAGGLGP AASAASTAAP FPFHLSQHML ASQGIPMPTF GGLFPYPYTY MAAAAAAASA LPATSAAAAA AAAAGSLSRS PFLGSARPRL RFSPYQIPVT IPPSTSLLTT GLAAEGSKGG NSREPSPLPE LALRKVGGPS RGALSPSGSA KEAASELQSI QRLVSGLESQ RALSPGRESP K
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	75,081 Da
Sequence Positions	1-711, 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 Q60707
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tbx2 recombinant protein	This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene product is the human homolog of mouse Tbx2, and shares strong sequence similarity with Drosophila omb protein. Expression studies indicate that this gene may have a potential role in tumorigenesis as an immortalizing agent. Transcript heterogeneity due to alternative polyadenylation has been noted for this gene.
Other Notes	Small volumes of Tbx2 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 Tbx2 purchase	MBS1312088 is a recombinant protein targeting Tbx2. Also known as Recombinant Mouse T-box transcription factor TBX2 (Tbx2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tbx2. It may not necessarily be applicable to this product.

NCBI GI #	120407039
NCBI GeneID	21385
NCBI Accession #	NP_033350.2
UniProt Primary Accession #	Q60707
UniProt Secondary Accession #	Q5SSP7
UniProt Related Accession #	Q60707
GenBank Nucleotide #	NM_009324.2
NCBI Official Full Name	T-box transcription factor TBX2
NCBI Official Synonym Full Names	T-box 2
NCBI Official Symbol	Tbx2
UniProt Protein Name	T-box transcription factor TBX2
Protein Family	T-box transcription factor
UniProt Gene Name	Tbx2
UniProt Synonym Gene Names	T-box protein 2
NCBI Protein Information	T-box transcription factor TBX2
UniProt Comments for Tbx2	Involved in the transcriptional regulation of genes required for mesoderm differentiation. Probably plays a role in limb pattern formation. Acts as a negative regulator of PML function in cellular senescence. May be required for cardiac atrioventricular canal formation ().
Research Articles on Tbx2	**1.** TBX2 is expressed in RPE cells both in vivo and in vitro. Specific knockdown of TBX2 in the human RPE cell line ARPE-19 leads to an accumulation of cells at G1.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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