Transcription Factor TCP2 (TCP2) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor TCP2 (TCP2), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Transcription factor TCP2 (TCP2)
Product Gene Name	TCP2 recombinant protein
Product Synonym Gene Name	TCP2
Sequence	MIGDLMKNNN NGDVVDNEVN NRLSRWHHNS SRIIRVSRAS GGKDRHSKVL TSKGPRDRRV RLSVSTALQF YDLQDRLGYD QPSKAVEWLI KAAEDSISEL PSLNNTHFPT DDENHQNQTL TTVAANSLSK SACSSNSDTS KNSSGLSLSR SELRDKARER ARERTAKETK ERDHNHTSFT DLLNSGSDPV NSNRQWMASA PSSSPMEYFS SGLILGSGQQ THFPISTNSH PFSSISDHHH HHPHHQHQEF SFVPDHLISP AESNGGAFNL DFNMSTPSGA GAAVSAASGG GFSGFNRGTL QSNSTNQHQS FLANLQRFPT SESGGGPQFL FGALPAENHH HNHQFQLYYE NGCRNSSEHK GKGKN
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	40,179 Da
Sequence Positions	1-365, 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 Q93V43
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TCP2 recombinant protein	MBS1331368 is a recombinant protein targeting TCP2. Also known as Recombinant Arabidopsis thaliana Transcription factor TCP2 (TCP2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TCP2 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 TCP2. It may not necessarily be applicable to this product.

NCBI GI #	145333394
NCBI GeneID	827568
NCBI Accession #	NP_001078407.1
UniProt Primary Accession #	Q93V43

UniProt Secondary Accession #	O49509; O81384; Q8LGF2
UniProt Related Accession #	Q93V43
GenBank Nucleotide #	NM_001084938.1
NCBI Official Full Name	TEOSINTE BRANCHED 1, cycloidea and PCF transcription factor 2
NCBI Official Symbol	TCP2
NCBI Official Synonym Symbols	cycloidea and PCF transcription factor 2; F28J12.50; F28J12_50; TEOSINTE BRANCHED 1
UniProt Protein Name	Transcription factor TCP2
UniProt Synonym Protein Names	Protein TEOSINTE BRANCHED 1
Protein Family	Transcription factor
UniProt Gene Name	TCP2
NCBI Protein Information	TEOSINTE BRANCHED 1, cycloidea and PCF transcription factor 2
UniProt Comments for TCP2	Plays a pivotal role in the control of morphogenesis of shoot organs by negatively regulating the expression of boundary-specific genes such as CUC genes, probably through the induction of miRNA (e.g. miR164). Participates in ovule develpment (PubMed:25378179). Participates in ovule develpment (PubMed:25378179). Promotes light-regulated transcription of CHS, CAB, HYH and HY5. Regulates positively photomorphogenesis (e.g. hypocotyl elongation inhibition and cotyledon opening in response to blue light) (PubMed:26596765).
Research Articles on TCP2	**1.** light affected TCP2 expression in a wavelength-dependent manner and TCP2 positively regulates mRNA expression of HYH and HY5.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/transcription-factor-tcp2-tcp2/1331368