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Datasheet for ABIN7562041

**THO Complex 2 Protein (THOC2) (AA 1-1594) (His tag)**

## Overview

Quantity:	1 mg
Target:	THO Complex 2 (THOC2)
Protein Characteristics:	AA 1-1594
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This THO Complex 2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Thoc2 Protein expressed in mammalien cells.
Sequence:	MAAAAVVWPA EWIKNWEKSG RGEFLHLCRI LSENKSHDSS TYRDFQQALY ELSYHVIKGN LKHEQASSVL NDISEFREDM PSILADVFCI LDIETNCLEE KSKRDYFTQL VLACLYLVSD TVLKERLDPE TLESGLGIKQ SQQFNQKSVK IKTKLFYKQQ KFNLLREENE GYAKLIAELG QDLSGNITSD LILENIKSLI GCFNLDPNRV LDVILEVFEC RPEHDDFFIS LLESYMSMCE PQTLCHILGF KFKFYQEPSG ETPSSLYRVA AVLLQFNLID LDDLYVHLLP ADNCIMDEYK REIVEAKQIV RKLTMVVLSS EKLDERDKEK DKDDEKVEKP PDNQKLGLE ALLKVGDWQH AQNIMDQMPP YYAASHKLI LAICKLIHIT VEPLYRRVGV PKGAKGSPVS ALQNKRAPKQ VESFEDLRRD VFNMFICYLGP HLSHDPILFA KVVIRIGKSFM KEFQSDGSKQ EDKEKTEVIL SCLLSITDQV LLPSLSLMDC NACMSEELWG MFKTFPYQHR YRLYGQWKNE TYNGHPLLVK VKAQTIDRAK YIMKRLTKEN VKPSGRQIGK LSHSNPTILF DYILSQIQKY DNLITPVVDS LKYLTSLNVD VLAYCIEAL ANPEKERMKH DDTTISSWLQ SLASFCGAVF RKYPIDLAGL

LQYVANQLKA GKSFDLLILK EVVQKMAGIE ITEEMTMEQL EAMTGGEQLK AEGGYFGQIR  
NTKKSSQRLK DALLDHDLAL PLCLLMAQQR NGVIFQEGGE KHLKLVGKLY DQCHDTLVQF  
GGFLASNLST EDYIKRVPSI DVLCNEFHTP HDAFFLSRP MYAHHISSKY DELKKSEKGS  
KQQHKVHKYI TSCEMVMAPV HEAVVSLHVS KVVDDISPQF YATFWSLTMY DLAVPHTSYE  
REVNKLKVQM KAIDDNQEMP PNKKKKEKER CTALQDKLLE EEKKQMEHVQ RVLQRLKLEK  
DNWLLAKSTK NETITKFLQL CIFPRCIFSA IDAVYCARFV ELVHQQKTPN FSTLLCYDRV  
FSDIITVAS CTENEASRYG RFLCCMLETV TRWHSDRATY EKECGNYPGF LTILRATGFD  
GGNKADQLDY ENFRHVHVKW HYKLTkasvh CLETGEYTHI RNILIVLTKI LPWYPKVLNL  
GQALERRVnk ICQEEKEKRP DLYALAMGYS GQLKSRKSHM IPENEFHHKD PPRNAVASV  
QNGPGGGTSS SSIGNASKSD ESGAEETDKS RERSQCGTKA VNKASSTTPK GNSSNGNSGS  
NSNKAVKEND KEKVKEKEKE KKEKTPATTP EARALGKDSK EKPKEERPnk EDKARETKER  
TPKSDKEKEK FKKEEKAKDE KFKTTVPIVE SKSTQERERE KEPSRERDVA KEMKSKENVK  
GGEKTPVSGS LKSPVPRSDI SEPdREQRR KIDSHPSpSH SSTVKDSLID LKDSSAKLYI  
NHNPPPLSKS KEREMDKKDL DKSRRERSRER EKKDEKDRKE RKRdHSNNDR EVPPDITKRR  
KEENGTMGVS KHKSESPCES QYPNEKDKEK NKSksSGKEK SSSDSFKSEK MDKISSGGKK  
ESRHdKEKIE KKEKRDSSGG KEEKkHHKSS DKHR **Sequence without tag. The proposed  
Purification-Tag is based on experiences with the expression system, a different complexity  
of the protein could make another tag necessary. In case you have a special request, please  
contact us.**

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Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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## Product Details

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Grade: custom-made

## Target Details

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Target: THO Complex 2 (THOC2)

Alternative Name: Thoc2 ([THOC2 Products](#))

Background: THO complex subunit 2 (Tho2),FUNCTION: Required for efficient export of polyadenylated RNA and spliced mRNA. Acts as a component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. Plays a role for proper neuronal development.  
{ECO:0000250|UniProtKB:Q8NI27}.

Molecular Weight: 182.8 kDa

UniProt: [B1AZI6](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months