

Datasheet for ABIN7555741

**THO Complex 2 Protein (THOC2) (AA 1-1593) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	THO Complex 2 (THOC2)
Protein Characteristics:	AA 1-1593
Origin:	Human
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 LKHEQASNVL SDISEFREDM PSILADVFCI LDIETNCLEE KSKRDYFTQL VLACLYLVSD TVLKERLDPE TLESGLGIKQ SQQFNQKSVK IKTKLFYKQQ KFNLLREENE GYAKLIAELG QDLSGSITSD LILENIKSLI GCFNLDPNRV LDVILEVFEC RPEHDDFFIS LLESYMSMCE PQTLCHILGF KFKFYQEPNG ETPSSLYRVA AVLLQFNLID LDDLYVHLLP ADNCIMDEHK REIAEAKQIV RKLTMVVLSS EKMDEREKEK EKEEEEKVEKP PDNQKLGLE ALLKIGDWQH AQNIMDQMPP YYAASHKLI LAICKLIHIT IEPLYRRVGV PKGAKGSPVN ALQNKRAPKQ AESFEDLRRD VFNMFICYLGP HLSHDPILFA KVVIRIGKSFM KEFQSDGSKQ EDKEKTEVIL SCLLSITDQV LLPSLSLMDC NACMSEELWG MFKTFPYQHR YRLYGQWKNE TYNSHPLLVK 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  
FSDIITYVAS CTENEASRYG RFLCCMLETV TRWHSDRATY EKECGNYPGF LTILRATGFD  
GGNKADQLDY ENFRHVHVKW HYKLTkasvh CLETGEYTHI RNILIVLTKI LPWYPKVLNL  
GQALERRVHK ICQEEKEKRP DLYALAMGYS GQLKSRKSYM IPENEFHHKD PPRNAVASV  
QNGPGGGPSS SSIGSASKSD ESSTEETDKS RERSQCGVKA VNKASSTPK GNSSNGNSGS  
NSNKAVKEND KEGKKEKEKE KKEKTPATTP EARVLGKDGK EKPKEERPKN DEKARETKER  
TPKSDKEKEK FKKEEKAKDE KFKTTVPNAE SKSTQERERE KEPSRERDIA KEMKSKENVK  
GGEKTPVSGS LKSPVPRSDI PEPEREQKRR KIDTHPSPSH SSTVKDSLIE LKESSAKLYI  
NHTPPPLSKS KEREMDKDL DKSRRSRER EKKDEKDRKE RKRdHSNNDR EVPPDLTKRR  
KEENGTMGVS KHKSESPCES PYPNEKDKEK NKSSSGKEK GSDFKSEKM DKISSGGKKE  
SRHDKEKIEK KEKRDSSGGK EEKHHKSSD KHR **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) (hTREX120),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. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. THOC2 (and probably the THO complex) is involved in releasing mRNA from nuclear speckle domains. Required for NXF1 localization to the nuclear rim. Plays a role for proper neuronal development. {ECO:0000269|PubMed:11979277, ECO:0000269|PubMed:15833825, ECO:0000269|PubMed:15998806, ECO:0000269|PubMed:17190602, ECO:0000269|PubMed:18974867, ECO:0000269|PubMed:22893130, ECO:0000269|PubMed:23222130, ECO:0000269|PubMed:26166480}.

Molecular Weight: 182.8 kDa

UniProt: [Q8NI27](#)

## 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

## Handling

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months