

Datasheet for ABIN7564702  
**THOC1 Protein (AA 1-657) (His tag)**



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## Overview

Quantity:	1 mg
Target:	THOC1
Protein Characteristics:	AA 1-657
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This THOC1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Thoc1 Protein expressed in mammalian cells.
Sequence:	MSPTPALFSL PEARTRFTKS TREALNNKNI KPLLTAFSQL PGSENEKKCT LDQAFRGVLE EEIINHSAE NVLAIISLAI GGVTESVCTA STPFVLLGDV LDCLPLDQCD TIFTFVEKNV ATWKSNTFYS AGKNYLLRMC NDLLRRLSKS QNTVFCGRIQ LFLARLFPLS EKSGNLNLSQ FNLENTVFN TNEQUESTLGQ KHTEDREEGM DVEEGEMGDD EAPTTCSIPI DYNLYRKFW LQDYFRNPVQ CYEKISWKTF LKYSEEVLA VFKSYKLDDTQ ASRKKMEELK TGGEHVYFAK FLTSEKLM DLQLSDSNFRRH ILLQYLILFQ YLKGQVKFKS SNYVLTDEQS LWIEDTTKSV YQLLSENPPD GERFSKMVEH ILNTEENWNS WKNEGCPSFV KERASDTKPT RVVRKRAAPE DFLGKGPNNK ILIGNEELTR LWNLCPDNME ACKSETREYM PTLEEFFEEA IEQADPENMV ESEYKAVNNS NYGWRALRLL ARRSPPHFQ TNPQFKSLPE YLENMVIKLA KELPPPSEEI KTGEDEDEED NDALLKENES PDVRRDKPIT GEQIESFANK LGEQWKILAP YLEIKDSDIR QIECDSEDMK MRAKQLLVAV QDQEGVHATT DNLISALNKS GLSDLAESLT NDTETNS <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression</b>

## Product Details

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**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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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

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## Target Details

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Target: THOC1

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Alternative Name: Thoc1 ([THOC1 Products](#))

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Background: THO complex subunit 1 (Tho1) (Nuclear matrix protein p84),FUNCTION: Required for efficient export of polyadenylated RNA. Acts as 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. Regulates transcriptional elongation of a subset of genes. Involved in genome stability by preventing co-transcriptional R-loop formation (By

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## Target Details

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similarity). May play a role in hair cell formation, hence may be involved in hearing (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:Q7SYB2}., FUNCTION: Participates in an apoptotic pathway which is characterized by activation of caspase-6, increases in the expression of BAK1 and BCL2L1 and activation of NF-kappa-B. This pathway does not require p53/TP53, nor does the presence of p53/TP53 affect the efficiency of cell killing. Activates a G2/M cell cycle checkpoint prior to the onset of apoptosis. Apoptosis is inhibited by association with RB1 (By similarity). Essential for early embryonic development. Required for normal gene expression during postnatal testis development. {ECO:0000250, ECO:0000269|PubMed:16705185, ECO:0000269|PubMed:19307311}.

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Molecular Weight: 75.4 kDa

UniProt: [Q8R3N6](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. 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