

Product datasheet for **SC300472**

THOC5 (NM_001002879) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THOC5 (NM_001002879) Human Untagged Clone
Tag:	Tag Free
Symbol:	THOC5
Synonyms:	C22orf19; Fmip; fSAP79; PK1.3
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001002879, the custom clone sequence may differ by one or more nucleotides

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ATGTCATCAGAATCGAGCAAAAAACGGAAGCCCAAAGTGATCCGAAGCGATGGAGCCCCA
GCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAATACTACAGTGAGGAG
GCCGAGGTGGATCTGCGGGACCCCTGGCAGAGACTATGAGTTATAACAAGTACACCTGCCAG
GAGCTACAGAGGCTGATGGCTGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTG
GCAATAGAAATAGAAGAACGGAGGATCCAGAGCTGTGTGCATTTTCATGACTCTAAAGAAG
CTTAACCGATTAGCCACATCAGGTTGAAGAAAGGAAGAGATCAGACCCACGAGGCTAAG
CAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTA
CAGAAGGAGATCACCAAATGTTTGGAGTTTAAGTCAAAGCATGAAGAAATTGATCTGGTC
AGTTTAGAGGAGTTTATAAAGGAGGCTCCACCAGATATCAGCAAGGCCGAAGTACCATG
GGAGACCCTCACCAGCAAACACTGGCACGTCTGGACTGGGAGCTGGAGCAGCGGAAAAGG
CTGGCAGAGAAGTACCGAGAGTGCCTATCTAACAAGGAGAAGATTCTCAAGGAGATTGAG
GTGAAGAAGGAGTACCTGAGCAGCTCCAGCCCCGCTCAACAGCATCATGCAGGCTTCC
CTTCCGGTGCAGGAGTACCTGTTTATGCCATTCGACCAGGCTCACAAGCAGTATGAGACA
GCCAGACACCTGCCGCTCCCTCTATGTCCTCTTTGTTGAGGCCACTGGTATGGGCAG
GCCTGTGATAAGACGTTATCTGTGGCAATCGAAGGCAGTGTGGATGAAGCCAAGGCTCTG
TTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGACTCAGATGCCGAGGAGGAGCAG
ACTACGAAGCGCCGGAGACCCCACTGGGGTTTCAGTTGGACGACAAACGCAAGGAGATG
CTGAAGAGGCACCCACTGTCTGTATGCTCGACCTGAAGTCAAAGATGACAGTGTGCTT
CACCTGACTTTTACTACCTCATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACA
ACTGCCATGGAGTGATCACCCCATCAGTGCAGGTGACTTGCTGTCTCCTGACTCAGTC
CTGATTTGCTTGTATCCTGGGGATCATGGAAAGAAAACCTCCGAATCCAGCCAATCAGTAT
CAGTTTGATAAAGTTGGCATCCTGACTTTGAGCGACTATGTACTTGAGCTAGGTACCCCC
TATTTGTGGGTGCAGAAGCTGGGTGGCCTCCACTTCCCCAAAGAGCAGCCCCAGCAAACA
GTGATTGCTGACCACTCGCTGAGCGCCAGCCACATGGAGACCACCATGAAACTTCTGAAG
ACCAGGGTGCAGTCCCGCTGGCCCTCCACAAACAGTTTGCATCCCTAGAACATGGCATT
GTGCCAGTACCAGTGATTGCCAGTACCTTCCCTGCCAAGGTTGTCTCTCGCCTGGTG
AAATGGGTGACAGTTGCCATGAGGATTACATGGAGCTGCACTTCACCAAAGACATTGTG
GATGCGGGACTGGCTGGGGACACCAATCTACTACATGGCGCTCATCGAAAGGGGCACA
GCCAAACTGCAGGCCGCTGTGGTGTGAACCCTGGCTACTCCTCCATCCCACCTGTTTTTC
CAGCTCTGTTTGAAGTGAAGGGGAGAAAACCAACAGCAACGATGACAACATTCGGGCC
ATGGAGGGCGAAGTCAATGTGTGTCTACAAGGAGCTGTGTGGCCCTTGGCCAGCCACCAG
CTGTTGACCAACCAGCTGCAGCGGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAG
AGCCATGACGACAGTGTGGAGGGGCCCAAGGAATTTCCCAGGAGAAGATGTGTCTGCGG
CTCTTCAGGGTCTTAGCAGGATGAAGCCATTTAATAACAACCATCCTCAGGGATTCTTC
AGCCATCGCTGA

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Restriction Sites: Please inquire

ACCN: NM_001002879

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001002879.1</u> , <u>NP_001002879.1</u>
RefSeq Size:	2578 bp
RefSeq ORF:	2052 bp
Locus ID:	8563
UniProt ID:	<u>Q13769</u>
Cytogenetics:	22q12.2
Gene Summary:	<p>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. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. THOC5 in conjunction with ALYREF/THOC4 functions in NXF1-NXT1 mediated nuclear export of HSP70 mRNA; both proteins enhance the RNA binding activity of NXF1 and are required for NXF1 localization to the nuclear rim. Involved in transcription elongation and genome stability. Involved in alternative polyadenylation site choice by recruiting CPSF6 to 5' region of target genes; probably mediates association of the TREX and CFIm complexes.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All four variants encode the same protein.</p>