

Product datasheet for **RN201699**

Thoc5 (NM_001012153) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thoc5 (NM_001012153) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Thoc5
Synonyms:	Fmip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201699 representing NM_001012153
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCAGAATCCAGCAAAAAAGGAAACCCAAAGTATCCGAAGTATGGAACCCCACTGAAGGGA
 AACGGAATCGATCTGACACAGAGCAGGAAGGCAGATACTATAGCGAGGAGGCTGAGGTTGACCTGCGGGA
 CCCCAGGACAGACTATGAGTTGTACAAGTACACTTGCCAGGAGCTACAGAGGTTGATGGCTGAGATCCAG
 GACCTGAAGAGCAAGGGCAGCAAGGACGTGGCCATTGAAATAGAAGAACGAAGGATCCAGAGCTGTGTGC
 ATTTTCATGACTCTAAAGAAGCTTAACCGATTAGCCCATATCAGGTTAAAGAAAGGAGAGATCAGACCCA
 CGAGGCCAAGCAGAAAGTCGATGCCTACCACCTACAGCTGCAGAACCTGCTCTACGAAGTATGCACCTG
 CAGAAGGAGATCACCAAGTGTCTGGAGTCAAGTCAAAGCATGAAGAAATCGATCTGGTCAGTTTAGAGG
 AATTTTATTCAGAAGCTCCACCAACATCAGCAAGGCCGAGATCACCATGGGAGACCCCTACCAACAGAC
 GCTGGCACGTTTGGACTGGGAGCTGGAGCAGCGAAAAGGCTGGCAGAGAAGTACCGAGAGTGTCTGTCC
 AACAAAGGAGAAGATCCTGAAGGAGATCGAGGTGAAGAAGGAGTATCTCAGCAGCCTCCAGCCCCGCCTCA
 ACAGCATCATGCAGGCTTCCCTGCCGGTGAAGAGTACCTGTTCATGCCATTTCGACCAGGCTCACAAAGCA
 GTACGAGACCGCCAGGCACCTGCCGCCTCCCTCTACGTGCTCTTTGTGCAGGCCACCGCATACGGGCGAG
 GCCTGTGATAAGACGTTGTCTGTGGCGATTGAAGGCAGTGTGGATGAAGCCAAAGCCCTTTTCAAGCCCC
 CCGAGGACTCCCAAGATGATGAGAGTACTCGGATGCTGAAGAGGAGCAGACCACGAGGCGTCGGCCAC
 ACTCGGGTTCAGTTGGATGATAAGCGCAAGGAGATGCTGAAAAGGCACCCGCTGTCTGTCTGTGGAT
 CTGAAGTGCAAAGACAACAGTGTGCTCCATCTGACTTTCTTCTATCTCATGAACCTCAACATCATGACAG
 TGAAAGCCAAAGTGACGACCGCCATGGAGCTGATCACCCCATCAGTGCAGGCGACTTACTGTCTCCTGA
 CTCGGTCTTGAGCTGCTTGTATCCTGGAGATCATGGAAAAGAAAAGTCCAAATCCAGCCAATCAGTATCAG
 TTTGATAAAGTTGGCATCCTGACTTTGAGAGACTATGTACTTGAGTTAGGTCACCCCTACTTGTGGGTAC
 AGAAGCTGGTGGCTCCACTTCCCAAAGAGCAGCCCCAGCACACGGTATGGCTGACCACTCACAGAG
 CGCTAGCCACATGGAGACCACCATGAAACTGCTCAAGACTAGGGTACAGTCCCGCCTGGCTCCACAAA
 CAGTTCGCATCTCTGGAACATGGCATTGTGCCAGTACCAGCGAGTGCAGTACCTTCCCTGCCAAGG
 TTGTTTCCGACTGGTAAAGTGGATGATAATGGCCATGAAGATTACATGGAGCTGCACTTCACTAAGGA
 CATTGTAGAGGCCGCTGGCTGGGACACCAACCTCTACTACCTGGCGTTATCGAAAGGGGAACAGCT
 AAGCTTACAGGCTGCTGTGTTACTGAACCTGGCTACTCCTCCATCCCACCTGTTTTCCGACTCTGTCTAA
 ACTGAAAAGGGGAGAAAACCAACAGCAACGATGACAACATTCGGGCTATGGAGAGTGAAGTCAATGTGTG
 CTATCGGGAGCTCTGCGGCCCTCGGCCAGTACCAGCTCTTGACCAACCAGCTGCAGAGGCTGTGTGTG
 CTGCTGGATGTCTACCTGGAGACCAGAGCCATGATGACAGTGTAGAGGGCCCCAAGGAATTTCCCAAGG
 AGAAGATGTGCCTGCGGCTCTTTAGGGTCCAAGTAGGATGAAGCCGTTTAAATAAACCACCCTCAGGG
 ATTCTTACGCCACCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001012153
Insert Size: 2049 bp

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).

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_001012153.1</u> , <u>NP_001012153.1</u>
RefSeq Size:	2227 bp
RefSeq ORF:	2049 bp
Locus ID:	360972
UniProt ID:	<u>Q68FX7</u>
Cytogenetics:	14q21
Gene Summary:	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. 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 (By similarity).[UniProtKB/Swiss-Prot Function]