

Product datasheet for **MC220451**

Thoc5 (NM_172438) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thoc5 (NM_172438) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Thoc5
Synonyms:	1700060C24Rik; A430085L24Rik; Fmip; PK1.3; Sgk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220451 representing NM_172438
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCAGAATCCAGCAAAAAACGAAACCCAAAGTATCCGGAGTATGGAACCCAACTGAAGGGA
 AACGGAACCGGTCTGACACGGAGCAGGAAGGCAAATACTACAGTGAGGAGGCTGAAGTTGACCTGCGGGA
 CCCTGGCAGAGACTATGAGTTGTACAAATACACTTGCCAGGAGCTACAAAGGCTGATGGCCGAGATCCAG
 GACCTGAAGAGTAAGGGCAGCAAGGACCTGGCCATTGAAATTGAAGAACGAAGGATCCAGAGCTGTGTGC
 ACTTCATGACTCTAAAGAAGCTTAACCGATTAGCCACATCAGATTAAGAAAGGAGAGACCAGACCCA
 CGAGGCCAAGCAGAAAGTCGATGCCTACCACCTACAGCTACAGAACCTGCTCTACGAAGTATGCACCTG
 CAGAAGGAGATCACCAATGTCTGGAGTTCAAGTCAAAGCATGAAGAAATGATCTGGTCAGCTTAGAGG
 AATTTTATTCAGAGGCTCCACCAAGCATCAGCAAGGCCGAGATCACCATGGGAGACCCCTACCAACAAC
 ATTTGGCACGTTTGGACTGGGAGCTGGAGCAGCGAAAAGGCTGGCAGAAAAGTACCGAGAATGTCTGTCT
 AACCAAGGAGAAGATCCTGAAGGAGATTGAGGTGAAGAGGGACTATCTGAGCAGCCTCCAGCTCGCCTCA
 ACAGCATCATGCAGGCTTCCCTGCCAGTGAAGAATACCTGTTCATGCCATTTGACCAGGCGCACAAACA
 GTATGAGACTGCCAGGCACCTGCCGCCTCCCTCTATGTGCTCTTTGTGCAGGCCACTGCATACGGGCGAG
 GCCTGTGATAAGACGCTGTCCGTGGCAATTGAAGGCAGTGTGGACGAAGCCAAAGCTCTTTCAAGCCCC
 CTGAGGACTCCCAAGATGATGAGAGCGACTCAGATGCTGAAGAGGAGCAGACGACGAAGCGGGCGGCC
 CACTCTCGGGTTTCAGTTGGATGACAAGCGCAAGGAGATGCTAAAAAGGCACCCACTGTCTGTCTGCTG
 GATCTGAAGTGCAAAGACAACAGTGTGCTTCATCTGACTTTCTACTATCTCATGAACCTCAACATCATGA
 CAGTGAAAGCCAAAGTGACGACCGCCGTGGAGCTGATCACCCCATCAGTGCAGGAGACTTACTGTCTCC
 TGACTCGGTCTTGAGCTGCTTGTATCCGGGAGATCATGGGAAAAAACTCCAAATCCAGCCAATCAGTAT
 CAGTTTGACAAAGTTGGCATCCTGACTTTGAGAGACTATGTACTTGAGTTAGGTCACCCCTACTTGTGGG
 TACAGAAGCTGGGTGGCCTCCACTTCCCAAGAGCAGCCCAGCAAACAGTATGCCTGACCACTCACA
 GAGCGCCAGCCACATGGAGACCACCATGAAACTGCTGAAGACCAGGGTACAGTCCCGCCTGGCTCTCCAC
 AAACAGTTTGCATCTCTGGAACATGGCATTGTGCCCGTACCAGCGATTGCCAGGACCTCTCCCTGCCA
 AGGTTGTTTCTCGCTGGTAAAGTGGGTGATAATTACCCATGAAGATTACATGGAGCTGCACTTCACTAA
 GGACATTTGGAGGCAGGACTGGCCGGAGACCAATCTCTACTACCTGGCGCTAATTGAAAGGGGAACA
 GCTAAACTTCAGGCTGCTGTGGTACTAAACCTGGCTACTCCTCCATCCCACCGTTTTCCGACTCTGTC
 TAAACTGGAAAGGGGAGAAAACCAACAGCAACGATGACAATATTCGGGCTATGGAGAGTGAAGTCAACGT
 GTGCTATAAAGGAGTTGTGTGGCCCTCGGCCAGTACCAGCTCCTGACCAACCAGCTGCAGAGACTGTGT
 GTGCTGCTGGACGTCTACCTGGAGACCGAGAGCCACGATGACAGCTTCGAGGGCCCCAAGGAGTTTCCCC
 AGGAGAAGATGTGCCTGCGGCTTTTGGGGTCCGAGTAGGATGAAGCCGTTTAAATACAACCATCCCCA
 AGGTTTCTCAGCCACCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_172438
Insert Size: 2052 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_172438.3</u> , <u>NP_766026.1</u>
RefSeq Size:	2235 bp
RefSeq ORF:	2052 bp
Locus ID:	107829
UniProt ID:	<u>Q8BKT7</u>
Cytogenetics:	11 A1
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. [UniProtKB/Swiss-Prot Function]