

Product datasheet for **MC220201**

Thoc1 (NM_153552) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thoc1 (NM_153552) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Thoc1
Synonyms:	3110002N20Rik; AW107452; NMP-84
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220201 representing NM_153552
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCCGACGCCGGCGCTTTTCAGTTTGCCGGAGGCGCGGACGCGATTACGAAATCTACCAGAGAAG
 CCTTGAATAACAAAAATATCAAGCCGTTGTTGACTGCCTTCAGTCAGTTACCTGGCAGTGAAAAATGAAAA
 AAAATGTACCTTGACCAAGCTTTCAGAGGTGTTCTGGAAGAAGAAATTATAAATCATTCCGCATGTGAG
 AACGTTTTAGCTATTATTTCTCTTGCTATTGGGGAGTGACCGAAAGTGTGTACTGCGTCCACACCAT
 TTGTGCTATTGGGAGATGCTTAGACTGCCTTCTTTGGATCAGTGTGACACAATATTCACCTTTTGTGA
 AAAAAATGTTGCTACTTGAAGTCAAATACATTCTATTCTGCTGGCAAAAATATTTACTGCGTATGTGC
 AATGATCTCCTCAGAAGATTGTCTAAATCTCAGAATACAGTTTTCTGTGGAAGAATTCAACTCTTTTGG
 CCAGGCTTTTCTCTATCTGAGAAATCAGGTCTTAATTTGCAGAGTCAGTTAACCTGGAAAACGTCAC
 TGTTTTCAATACAAACGAGCAGGAGAGCACCTGGGTGAGAAGCATACTGAGGATAGAGAGGAAGGGATG
 GATGTAGAAGAAGGTGAAATGGGAGATGATGAAGCCCGACAACCTGTTCTATTCCAATTGATTACAACC
 TGTATAGAAAATTCTGGTCACTTCAGGATTACTTCAGGAACCCAGTGCAATGCTATGAGAAGATTTCTTG
 GAAAACGTTTCTCAAGTATTCTGAAGAAGTTTTAGCTGTTTTTAAAAGTTATAAATTAGATGATACTCAA
 GCCTCCAGGAAAAAGATGGAAGAATTGAAAACAGGAGGAGAGCATGTATACTTCGCCAAGTTTCTAACAA
 GTGAAAAGTTGATGGATTTACAACCTGAGTGACAGTAACTTTCTGTCGACACATCCTGTTGCAGTATCTCAT
 TTTATTTCAATATCTCAAGGGACAGGTCAAATTCAAAAGTTCAAATATGTTTTAACTGATGAGCAATCA
 CTCTGGATTGAAGATACTACAAAATCAGTCTACCAACTGCTATCTGAAAAATCCCCCTGATGGAGAAAAGT
 TTTCAAAGATGGTAGAGCATATATTAACACTGAGGAAAATGGAACTCATGGAAGAATGAAGTTGCC
 AAGTTTTGTAAAAGAAAGAGCGTCAGATACCAAGCCACAAGAGTGGTGAGGAAGAGAGCAGCCCCAGAA
 GACTTCTTAGGCAAAGGCCCAACAAGAAAATCCTCATTGAAAATGAGGAGCTCACAAAGGCTTTGGAATC
 TCTGCTCTGATAATATGGAAGCCTGAAAATCAGAGACAAGAGAATACATGCCAACTTTGAGGAGTTCTT
 TGAAGAAGCTATTGAACAAGCAGATCCTGAAAACATGGTTGAAAAGTGAATATAAGCCGTAATAATTCA
 AATTATGGATGGAGAGCTCTTAGACTCTTAGCCCGGAGAAGCCCTCACTTCTTTCAGCCAACCAACCAGC
 AGTTTAAAGAGTCTACCAGAGTATCTGAAAACATGGTGATAAAGTGGCCAAGGAACTACCACCCCTTC
 TGAAGAAAATAAAGACAGGTGAGGATGAAGACGAGGAAGATAATGATGCTTTACTAAAGGAAAATGAAAGT
 CCAGATGTTCCGGCAGATAAACCTATAACAGGGGAGCAGATAGAGTCATTTGCCAACAACTTGGTGAGC
 AGTGGAAGATTTGGCTCCTTACCTGAAAATTAAGACTCTGATATTAGGAGATTGAGTGTGACAGTGA
 AGACATGAAGATGAGAGCCAAGCAGCTCCTTGTTCCTGGCAAGATCAAGAAGGAGTTTCATGCAACAACT
 GATAACCTGATTAGTGCATAAACAAGTCTGGATTAAGTGACCTTGACAGAAAGTCTAACTAATGACACTG
 AAACAACAGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_153552
- Insert Size:** 1974 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:

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: [NM_153552.3](#), [NP_705780.1](#)

RefSeq Size: 3855 bp

RefSeq ORF: 1974 bp

Locus ID: 225160

UniProt ID: [Q8R3N6](#)

Cytogenetics: 18 A1

Gene Summary: 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 similarity).[UniProtKB/Swiss-Prot Function]