

## Product datasheet for MC201308

### Thoc3 (NM\_028597) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Thoc3 (NM\_028597) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Thoc3  
**Synonyms:** 2410044K02Rik; AL033344  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC019603 sequence for NM\_028597  
GGGAGGCATGGCGGCCCGCTGCGGTCCTGGGCCCTCGGCCCTCGGCCAGAGCGGCCCGGCTCGATG  
GCGCCCTGGTGCTCAGTGAGCAGTGGCCCGTCTCGTTACGTGCTCGGGATGCAGGAGCTCTCCGAGGCC  
ACAGCAAGACGCGCAATTCCCGCGCACAGTGCTAAGGTGCACTCGGTCGCCTGGAGCTGCGATGGCCG  
TCGCTTGCCCTCGGGTCTTCGACAAGACTGCCAGCGTGTCTTCTGCTGGAGAAGGACCGGCTGGTCAAA  
GAAAACAACACTACCGGGCCACGGAGATAGTGTGGACCAGCTTTGTTGGCACCCAAGCAACCTGACCTCT  
TTGTCACCGCATCTGGAGATAAAACCATTCGCATCTGGGATGTGAGGACTACAAAATGCATCGCCACTGT  
GAATACGAAAGGGGAGAACATTAACATCTGTTGGAGTCCCAGCGGCAGACCATCGCTGTGGCAACAAG  
GACGACGTTGTGACTTTCATTGACGCCAAGACACACCGCTCCAAAGCGGAGGAGCAGTTCAAGTTTGAGG  
TCAATGAGATCTCATGGAACAACGACAACAACATGTTCTTCTGACCAACGGCAATGGTTGCATCAACAT  
CCTCAGCTACCCAGAATTGAAGCCTGTGCAGTCCATCAATGCCCATCCTTCTAACTGCATCTGTATCAAG  
TTTGACCCCATGGGAAATACTTTGCCACAGGAAGTGCAGATGCCTTGGTCAGCCTTTGGGACGTTGACG  
AGTTAGTGTGCGTGCGGTGCTTTTCCAGACTAGATTGGCCTGTGAGGACCCTCAGTTTTAGCCACGATGG  
GAAAATGCTGGCATCGGCTTCGGAGGACCATTTCAATTGATATAGCTGAAGTCGAGACAGGAGACAAGCTA  
TGGGAGGTGCAGTGTGAGTCCCCGACTTTCAGTGTGGCTTGGCACCCCAAGAGGCCTCTGCTGGCTTTTG  
CCTGTGATGACAAAGATGGCAAATACGACAGCAGTCCGGGAGGCTGGAAGTGTGAAGCTGTTTGGACTTCC  
CAATGACTCCTGAGAGGGCCGACAGCGAGAGGAGAGAGGAGGCAGGAGGCCGGCGGACTATTTGGGCTA  
CCTAATGACTGTACCTTTCAGGGAGAGGAGGCCTGGGCTTCTAATGACTCCTGAGAGGACCTGATGGGA  
GAGGAGGCTGGGTGCAGACCTTCTTTTGTATAGTTCAATGACTGTAGTCTTTTGGACTTGTAGGCACCATAAA  
TGTTTTATAAATGCATAAATGACCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_028597  
**Insert Size:** 1056 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC019603</a> , <a href="#">AAH19603</a>
<b>RefSeq Size:</b>	1300 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	73666
<b>UniProt ID:</b>	<a href="#">Q8VE80</a>
<b>Cytogenetics:</b>	13 B1
<b>Gene Summary:</b>	Required for efficient export of polyadenylated RNA and spliced mRNA. 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 (By similarity). [UniProtKB/Swiss-Prot Function]