

Product datasheet for **MC224729**

Thoc2 (NM_001033422) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Thoc2 (NM_001033422) Mouse Untagged Clone
Tag: Tag Free
Symbol: Thoc2
Synonyms: 6330441O12Rik; D130005M13Rik; Gm1139; Gm1793; Tho2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224729 representing NM_001033422
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCGCGGCTGTGGTGGTTCCCGCAGAGTGGATAAAGAACTGGGAGAAATCAGGGAGAGGCGAAT
TTTTACATTTATGCCGATTCTCAGTGAAAATAAAGCCATGACAGTTCGACCTACAGAGATTTCAACA
AGCTCTGTATGAGTTGTCATACCATGTCATTAAGGGAATTTAAAGCACGAACAGGCATCTAGTGTCTT
AATGACATTAGCGAATCCGTGAGGATATGCCTTCTATCCTTGCTGACGTGTTCTGCATATTAGATATTG
AAACAAATTTGTTAGAAGAAAAAGCAAGAGAGACTATTTTACACAGTTGGTATTAGCATGTTTGTATTT
AGTTTCAGACACAGTTTTGAAGGAACGATTGGATCCAGAACTTTGGAATCATTAGGGCTTATCAACAG
TCACAGCAGTTCAACCAAAAGTCAGTAAAAATCAAGACAAAACCTTTTTATAAGCAGCAAAAATTC AATT
TATTAAGAGAAGAAAATGAAGTTATGCCAAGCTGATTGCTGAAGTGGGACAAGATTTATCTGGAATAT
TACTAGTGATTTAATATTAGAAAATATCAAATCTTTAATCGGATGCTTTAATCTGGATCCTAATAGAGTT
TTGGATGTCATTTAGAAGTGTGGAATGCAGGCCAGAACATGATGACTCTTTATATCTTTATTAGAAT
CTTACATGAGTATGTGTAGCCACAACACTGTGCATATTCTGGATTCAAATTC AAGTTTTACCAGGA
ACCAAGTGGTGAGACCCATCGTCTTTATACAGAGTTGCAGCAGTCTCCTGCAATTTAATCTCATTGAT
CTAGATGATCTTTATGTGCATCTCCTTCTGCTGATAATTGTATTATGGATGAATACAAACGAGAAATTG
TGAAGCTAAGCAAAATTGAAGAAAACCAATGGTTGTGCTGCTTTCTGAAAACTTGATGAACGAGA
CAAAGAAAAGGACAAAGATGATGAGAAAGTTGAGAAGCCACCGGACAACCAAAAGCTGGGTTTGTGGAA
GCTTTGTTAAAAGTTGGTATTGGCAGCATGCACAGAACATCATGGATCAGATGCCTCCATACTATGCAG
CTTCACATAAACTAATAGCTCTTGCTATTTGCAAGCTCATTACATAACCGTTGAGCCTCTCTACCGAAG
AGTTGGTGTCTAAAGGTGCTAAGGGCTACCGGTTAGCGCTTTGCAAAACAAGAGACCCGAAGCAA
GTAGAGAGCTTTGAAGATTTGAGGAGGGATGTATTCAATATGTTCTGTTACCTTGGTCTCACCTCTCAC
ATGATCCCATTTATTTGCAAAAGTCGTGCGCATAGGCAAGTCATTTATGAAGGAGTTTCAGTCTGATGG
AAGCAAACAGGAAGATAAAGAGAAAACGGAAGTTATCCTTAGCTGTTTGCTTAGCATTACTGACCAGGTA
TTACTTCCATCTCTTTCTTTGATGGACTGCAATGCTTGATGCTGCTGAGGAGCTGTGGGAATGTTTAAAGA



CATTCCCTATCAGCATAGATATCGACTATATGGTCAGTGAAGAATGAACTTATAATGGTCACCCACT
 TTTAGTAAAAGTTAAAGCTCAAACAATAGACAGAGCCAAGTATATCATGAAGCGTCTAACCAAGGAAAAT
 GTGAAGCCTTCAGGAAGACAAAATGGCAAGCTGAGCCACAGCAATCCAACAATTTTGTGGATTATATCT
 TGTCAAAAATCCAGAAATACGATAACTTAATAACACCTGTAGTAGATTTCATTGAAATACCTCACTTCGTT
 GAATTATGATGTCTTGGCCTATTGTATCATTGAAGCTTTAGCTAATCCAGAAAAGGAAAGAAATGAAACAT
 GATGACACAACCATCTCAAGCTGGCTTCAGAGTCTGGCTAGTTTCTGTGGTGCAGTATCCGTAATAACC
 CGATTGATCTTGGTGGTCTTCTTCAGTATGTAGCCAATCAATTAAGGCAGGCAAAAGTTTGACCTACT
 AATATTGAAAAGAAGTGGTACAAAAAATGGCAGGAATTGAAATTACAGAGGAGATGACGATGGAGCGTTA
 GAAGCCATGACTGGTGGGAGCAGCTAAAGGCTGAGGGTGGTTATTTTCGCCAGATCAGAAAACACTAAAA
 AATCTTCTCAGAGATTAAGGATGCACTACTGGACCATGATCTTGTCTTCTCTCTGTTTGCTTATGGC
 ACAACAGAGAAAATGGGTAAATTTTTCAGGAGGGTGGAGAGAAACACTTGAACTTGTGGGAAAACCTAT
 GACCAGTGTGATGACACCCTAGTACAGTTTGGTGGATTTTTCAGCATCAAATCTAAGTACAGAAGATTATA
 TAAAACGAGTGCCTTCAATTGATGTGCTCTGTAATGAGTTTCATACACCACAGTGCAGCATTTTTTCT
 GTCTAGGCCAATGTATGCACACCATATTCGTCAAATAACGATGAACTTAAAAAATCAGAAAAGGGAAGT
 AAACAGCAACATAAAGTCCATAAATACATTACATCATGTGAGATGGTGTGCTCCTGTCCATGAAGCAG
 TGGTCTCCTTACATGTTTCCAAAGTCTGGGATGACATCAGTCTCAGTTCATGCTACATTTTGGTCATT
 GACAATGTATGACCTTGCACTTCCACATACCAGCTATGAAAGAGAAGTCAATAAACTTAAAGTCCAGATG
 AAAGCGATTGATGACAATCAGGAAATGCCTCCAAATAAAAAGAAAAAGAAAAGGAGCGTTGCACTGCC
 TTCAGGACAAGCTCCTTGAAGAAGAAAAGAACGAGATGGAACATGTTCAAAGAGTACTTCAGAGACTGAA
 ACTAGAAAAGGACAACCTGGCTTTTAGCAAAAGTCTACCAAAAATGAGACCATCACAAAATTTTACAGCTG
 TGTATATTTCTCGATGCATTTTTTTCAGCAATTGATGCTGTTTATTGTGCTCGTTTTTGTGAATTGGTAC
 ATCAACAGAAAACCTCAAATTTTCCACACTTCTTGTATGATCGAGTTTTTTCGACATAATTTACAC
 GGTTCGAAAGTGCCTGCAAAAATGAAGTGTGCTGATGAGGATTTTCTTGTGATGTTAGAGAGCGGTG
 ACCAGGTGGCATAGTGATAGAGCCACATATGAAAAGGAATGTGGAACTATCCAGGATTCCTTACCATAT
 TACGGGCAACTGGATTTGATGGTGGAAATAAAGCTGATCAGTTAGATTATGAAAATTTTCGACACGTTGT
 CCACAAATGGCATTACAACTAACCAAGGCATCAGTACATTGCCTTGAGACGGGCGAATATACTCACATC
 AGGAATATATTGATTGTACTAACAAAAAATACTTCTTGGTACCAAAAAGTTTTGAATCTGGGTGAGGCTT
 TGGAGAGAAGAGTGAATAAAATATGCCAAGAAGAAAAGAGAAGAGGCCAGATCTTTATGCATTGGCTAT
 GGGCTACTCGGGCAGTTGAAAAGTAGAAAGTACACATGATACCTGAAAATGAATTCATCATAAGGAT
 CCTCTCCAAGGAATGCTGTTGCCAGTGTACAAAATGGGCCTGGTGGTGGGACTTCTTCATCATCTATAG
 GAAATGCATCTAAATCAGATGAAAGCGGTGCTGAGGAGACTGATAAATCAAGGGAGAGATCTCAGTGTGG
 TACAAAAGCTGTTAATAAGGCTTCTAGTACCACACCAAGGGGAATTCAAGCAATGGAAATAGTGGCTCT
 AACAGCAACAAAGCTGTTAAGGAAAATGACAAAAGAAAAGTAAAAGAGAAAAGAAAAGAGAAAAGGAGA
 AGACTCCAGCTACAACCTCCAGAGGCCAGGGCCTTGGTAAAGATAGTAAAGAAAACCGAAGGAAGAGCG
 GCCAAATAAAGAAGACAAAGCAAGAGAGACAAAGGAAAGAACACCTAAATCTGACAAAGAGAAAAGAGAAG
 TTCAAGAAAGGAAGAAAAGCTAAAGATGAGAAATCAAGACTACCGTCCCATCGTAGAATCAAAATCGA
 CTCAAGAAAGGGAAGAGAGAAGGAGCCATCCAGAGAAAGAGATGTAGCAAAAGGAAATGAAGTCAAAGGA
 AAATGTTAAAGGAGGAGAAAAAACACAGTTTCAGGGTCTTGAAGTCACTGTTCCCGCATCAGATATC
 TCGGAGCCTGACAGGGAAACAAAACCGCCAAAATTTGATAGTCACTCTTCCATCACATTCCTCCACAG
 TAAAGGACAGTCTCATCGATCTCAAGGACTCTTACGAAAAGCTCTACATTAACCATAACCCCTCCACCCT
 GTCCAAGAGTAAGGAGAGAGAAATGGACAAGAAAGATTTGGACAAGTCAAGGGAAGATCCAGAGAAAGA
 GAGAAAAAAGATGAAAAGGACAGGAAAGAACGAAAAGGGATCATTCAAACAATGACCGGAAAGTCCAC
 CGGACATAACAAAGAGCGGAAAGAGGAGAATGGAAACAATGGGGTTTCAAACACAAAAGTGAAGTCC
 ATGTGAGTCTCAATATCCAAATGAGAAAGACAAAGAGAAAAATAAGTCAAATCTTCAGGCAAGAAAA
 AGCAGTAGTGATTCGTTTAAAGTCTGAGAAGATGGATAAAATCTCATCTGGTGGCAAAAAGGAATCCAGGC
 ATGATAAAGAAAAGATAGAAAAGAAAAGAAAACGGGATAGTTCAGGAGGAAAAGGAGAAGAAAACATCA
 TAAGTCTCTGACAAGCACAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

| | |
|-------------------------------|--|
| ACCN: | NM_001033422 |
| Insert Size: | 4785 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: | NM_001033422.1 , NP_001028594.1 |
| RefSeq Size: | 7631 bp |
| RefSeq ORF: | 4785 bp |
| Locus ID: | 331401 |
| UniProt ID: | B1AZI6 |
| Cytogenetics: | X A4 |
| Gene Summary: | 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. Plays a role for proper neuronal development.[UniProtKB/Swiss-Prot Function] |