

Product datasheet for **MC225947**

Thoc7 (NM_001285780) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Thoc7 (NM_001285780) Mouse Untagged Clone
Tag: Tag Free
Symbol: Thoc7
Synonyms: Nif3l1bp1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225947 representing NM_001285780
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGAGCACTCTGTCCAGTGTGAATTTTCAATGGGCAAACATTGCTGGTATATGATATGAATCTCA
GAGAAATGGAAAATTATGAAAAATATACAAAGAAATAGAATGTAGTATTGCTGGAGCACATGAAAAAT
TGCTGAGTGTA AAAAGCAGATTCTTCAAGCAAACGAATACGAAAAATCGACAAGAATATGACGCTTTG
GCCAAAGTGATCCAGCATCACCCAGACAGGCATGAGACTGAAGGAGCTAGAGGCTCTGGCAAAGAAT
TAGAGCATCTCTACATATTAAGAAAGTGTGAGATAAGCTGGAATTGAGACGAAACAATTTACGT
TCTTCTTAGTACCATCCATGAACCTCAACAGACATTGGAGAATGATGACAAGCTGTGAGGTTGGATGAA
GCTCAAGAAAGCACCATGGAAGCAGACCCTAAGCCAT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001285780
Insert Size: 459 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).



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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001285780.1</u> , <u>NP_001272709.1</u>
RefSeq Size:	1069 bp
RefSeq ORF:	459 bp
Locus ID:	66231
UniProt ID:	<u>Q7TMY4</u>
Cytogenetics:	14 A1
Gene Summary:	<p>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.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1.</p>