

Product datasheet for **SC113446**

THEM2 (ACOT13) (NM_018473) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THEM2 (ACOT13) (NM_018473) Human Untagged Clone
Tag:	Tag Free
Symbol:	THEM2
Synonyms:	HT012; PNAS-27; THEM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113446 sequence for NM_018473 edited (data generated by NextGen Sequencing)

```
ATGACCAGCATGACTCAGTCTCTGCGGGAGGTGATAAAGGCCATGACCAAGGCTCGCAAT
TTTGAGAGAGTTTTGGGAAAGATTACTCTTGCTCTGCTGCTCCTGGGAAAGTGATTTGT
GAAATGAAAGTAGAAGAAGGCATACCAATGCAATAGGCACTCTCCACGGCGTTTGACA
GCCACGTTAGTAGATAACATATCAACAATGGCTCTGCTATGCACGGAAAGGGGAGCACCC
GGAGTCAGTGTGATATGAACATAACGTACATGTACCTGCAAAAATTAGGAGAAGATATA
GTGATTACAGCACATGTTCTGAAGCAAGGAAAAACACTTGCATTTACCTCTGTGGATCTG
ACCAACAAGGCCACAGGAAAATTAATAGCACAAAGGAAGACACAAAAACCTGGGAAAC
TGA
```

Clone variation with respect to NM_018473.3



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018473 unedited NGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCCTCGTGC CGAATTCGGCAGCAGGGCGGGCTCTTCGCCCTTTGTGTCTCCTTCTTTCACTAACTTCT GGACTTTCCAGCTCTCCGAAGTTCGTTCTTGCGCAAAGCCAAAGGCTGGAAAACCGTC CACGATGACCAGCATGACTCAGTCTCTGCGGGAGGTGATAAAGGCCATGACCAAGGCTCG CAATTTTGAGAGAGTTTTGGGAAAGATTACTCTGTCTCTGCTCCTGGGAAAGTGAT TTGTGAAATGAAAGTAGAAGAAGAGCATACCAATGCAATAGGCACTCTCCACGGCGGTTT GACAGCCACGTTAGTAGATAACATATCAACAATGGCTCTGCTATGCACGAAAGGGGAGC ACCCGGAGTCAGTGTGATATGAACATAACGTACATGTACCTGCAAAATTAGGAGAAGA TATAGTGATTACAGCACATGTTCTGAAGCAAGGAAAAACACTTGCAATTTACCTCTGTGGA TCTGACCAACAAGGCCACAGGAAATTAATAGCACAAGGAAGACACAAAAACCTGGG AAAGTGAAGAGAACAGCAGAATGACCTAAAGAAACCCAACAATGAATATCAAGTATAGATT TGACTCANACAATTGTAATTTTTGAAATAAACTAGCAAAACAGGAGCAGCTAGAAATAT TCTTGGAGGAAAAGGACCTGGATATCAAGTAGGGTAAAGGTGGNGGGTGTCTTTTTTTCAC TTTAAGCATCTTGTCTTCTAATCATGTGTGATAATTGGGTGAAAATTCTTAGCTCANAG TGTTTTAAAAACAGGTAAAGCAAGAACTAGCAGGACCACTCTCAGTTAAGAATAAACT AAGTCCAGTGTTAAGCTAAGGAAGAAATAGAATTTAATGTTTCTATTCTGTTTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_018473
Insert Size:	4000 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_018473.2 , NP_060943.1
RefSeq Size:	753 bp
RefSeq ORF:	423 bp
Locus ID:	55856
UniProt ID:	Q9NPJ3
Cytogenetics:	6p22.3
Domains:	4HBT

Gene Summary:

This gene encodes a member of the thioesterase superfamily. In humans, the protein co-localizes with microtubules and is essential for sustained cell proliferation. The orthologous mouse protein forms a homotetramer and is associated with mitochondria. The mouse protein functions as a medium- and long-chain acyl-CoA thioesterase. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2009]

Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.