

## Product datasheet for **RG201505**

### **THEM2 (ACOT13) (NM\_018473) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** THEM2 (ACOT13) (NM\_018473) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** THEM2  
**Synonyms:** HT012; PNAS-27; THEM2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201505 representing NM\_018473  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

**ATGACCAGCATGACTCAGTCTCTGCGGGAGGTGATAAAGGCCATGACCAAGGCTCGCAATTTTGAGAGAG**  
**TTTTGGGAAAGATTACTCTTGTCTCTGCTGCTCCTGGGAAAGTGATTTGTGAAATGAAAGTAGAAGAAGA**  
**GCATACCAATGCAATAGGCACTCTCCACGGCGTTTACAGCCACGTTAGTAGATAACATATCAACAATG**  
**GCTCTGCTATGCACGGAAAGGGGAGCACCCGGAGTCAGTGTGATATGAACATAACGTACATGTCACCTG**  
**CAAAATTAGGAGAAGATATAGTGATTACAGCACATGTTCTGAAGCAAGGAAAAACACTTGCAATTTACCTC**  
**TGTGGATCTGACCAACAAGGCCACAGGAAAATTAATAGCACAAAGGAAGACACAAAAACCTGGGAAAC**

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG201505 representing NM\_018473  
**Red**=Cloning site **Green**=Tags(s)  
MTSMTQSLREVIKAMTKARNFERVLGKITLVSAAPGKVICEMKVEEHTNAIGTLHGGLTATLVDNISTM  
ALLCTERGAPGVSVDNMITYMSPAKLGEDIVITAHVLKQKTLAFTSVDLTNKATGKLIQGRHTKHLGN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_018473

**ORF Size:** 420 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_018473.4](#)

**RefSeq Size:** 753 bp

**RefSeq ORF:** 423 bp

Locus ID: 55856

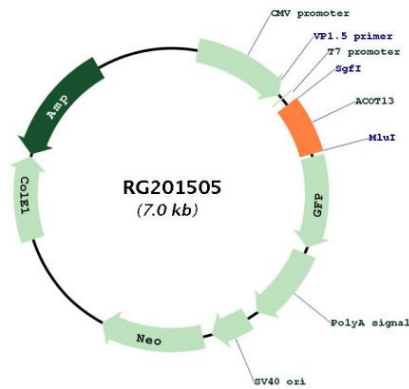
UniProt ID: [Q9NPJ3](#)

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]

**Product images:**



Circular map for RG201505