

## Product datasheet for **RG228056**

### **THEM2 (ACOT13) (NM\_001160094) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** THEM2 (ACOT13) (NM\_001160094) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ACOT13  
**Synonyms:** HT012; PNAS-27; THEM2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228056 representing NM\_001160094  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTAGAAAGATTACTTGTCTCTGCTGCTCCTGGGAAAGTGATTTGTGAAATGAAAGTAGAAGAAG  
AGCATACCAATGCAATAGGCACTCTCCACGGCGGTTTGACAGCCACGTTAGTAGATAACATATCAACAAT  
GGCTCTGCTATGCACGGAAAGGGGAGCACCCGGAGTCAGTGTGATGAAACATAACGTACATGTCACCT  
GCAAAATTAGGAGAAGATATAGTGATTACAGCACATGTTCTGAAGCAAGGAAAAACACTTGCATTTACCT  
CTGTGGATCTGACCAACAAGGCCACAGGAAAATTAATAGCACAAAGGAAGACACAAAACACCTGGGAAA  
C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228056 representing NM\_001160094  
**Red**=Cloning site **Green**=Tags(s)

MVRKITLVSAAPGKVICEMKVEEHTNAIGTLHGGLTATLVDNISTMALLCTERGAPGVSDMNITYMSP  
AKLGEDIVITAHVLKQGKTLAFTSVDLTNKAATGKLIQAQRHTKHLGN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

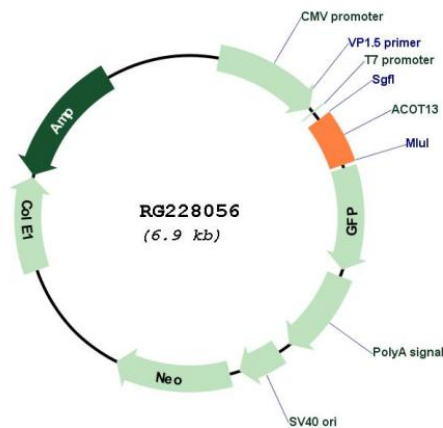


[View online »](#)

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001160094

**ORF Size:** 351 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<u><a href="#">NM_001160094.1</a></u> , <u><a href="#">NP_001153566.1</a></u>
<b>RefSeq Size:</b>	4407 bp
<b>RefSeq ORF:</b>	354 bp
<b>Locus ID:</b>	55856
<b>UniProt ID:</b>	<u><a href="#">Q9NPJ3</a></u>
<b>Cytogenetics:</b>	6p22.3
<b>Gene Summary:</b>	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]