

Product datasheet for RC201505

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THEM2 (ACOT13) (NM_018473) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK
Symbol: THEM2

Synonyms: HT012; PNAS-27; THEM2

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC201505 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACCAGCATGACTCAGTCTCTGCGGGAGGTGATAAAGGCCATGACCAAGGCTCGCAATTTTGAGAGAG
TTTTGGGAAAGATTACTCTTGTCTCTCTGCTGCTCCTGGGAAAGTGATTTGTGAAATGAAAGTAGAAGAAGA
GCATACCAATGCAATAGGCACTCTCCACGGCGGTTTGACAGCCACGTTAGTAGATAACATATCAACAATG
GCTCTGCTATGCACGGAAAGGGGAGCACCCGGAGTCAGTGTCGATATGAACATAACGTACATGTCACCTG
CAAAATTAGGAGAAGATATAGTGATTACAGCACATGTTCTGAAGCAAGGAAAAAACACTTGCATTTACCTC
TGTGGATCTGACCAACAAGGCCACAGGAAAATTAATAGCACAAAGGAAGACACACAAAACACCTGGGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201505 protein sequence

Red=Cloning site Green=Tags(s)

MTSMTQSLREVIKAMTKARNFERVLGKITLVSAAPGKVICEMKVEEEHTNAIGTLHGGLTATLVDNISTM ALLCTERGAPGVSVDMNITYMSPAKLGEDIVITAHVLKQGKTLAFTSVDLTNKATGKLIAQGRHTKHLGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6301 h10.zip

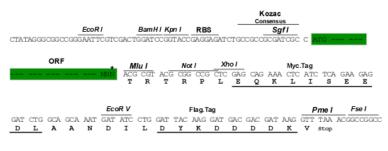
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NM 018473.4

RefSeq Size: 4118 bp



RefSeq ORF: 423 bp
Locus ID: 55856
UniProt ID: Q9NPJ3
Cytogenetics: 6p22.3
Domains: 4HBT

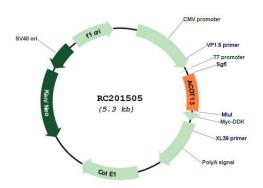
MW: 15 kDa

Gene Summary: This gene encodes a member of the thioesterase superfamily. In humans, the protein co-

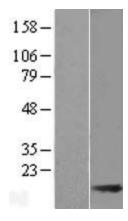
localizes with microtubules and is essential for sustained cell proliferation. The orthologous mouse protein forms a homotetramer and is associated with mitochondria. The mouse protein functions as a medium- and long-chain acyl-CoA thioesterase. Multiple transcript variants encoding different isoforms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

2009]

Product images:

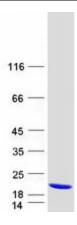


Circular map for RC201505



Western blot validation of overexpression lysate (Cat# [LY413049]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201505 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified ACOT13 protein (Cat# [TP301505]). The protein was produced from HEK293T cells transfected with ACOT13 cDNA clone (Cat# RC201505) using MegaTran 2.0 (Cat# [TT210002]).