

## Product datasheet for RN210703

### Them4 (NM\_001025017) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Them4 (NM\_001025017) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Them4  
 Synonyms: RGD1304723  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN210703 representing NM\_001025017  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTTGAGAAGCTGCGCTATGCGCCTGCGCACTCTTGGGGCCACGCTGCAAGGCGGCCCTGAAGCAACGA  
 GGAGGTTATTTCTTCTGAGGAAGTCGTCTGTAAGGACTATGCTCTCCCTAACCCAGCTGGACTAAGGA  
 CCTAAGACTCCTTTTTGACCAGTTCATGAAGAAATGTGAAGATGGCTCCTGGAAACGTTTGCCTTCATAC  
 AGACAAAACCTCCTCAAGCCCTCAAGAGTTCCAAACCCACTTTGTTGACTCAAAGTTTAAAGAAAGAA  
 AACAAATGTCAAAGGCACAACAGTTCACCAGAAGCTTAGAAGAAGGACTAGGCTTTGAGTACGCGATGTT  
 CTATAATAAGGCTGAGAAGAGAATTGTCTGCTTGTTCAGGAGGTCTTACCTGCAAGGAATGCCTGGA  
 TTTGTTTATGGAGGTGCCATTGCAACCATCATCGACATCACTGCCGGCATGTGTGCATTTCTGAGGGCA  
 TTGTCATGACTGCCAATCTCAACATCGACTATAAAAAACCTATCCCCCTTCTTCTGTTGTTGTGGTAAA  
 TAGCCAACTTCAAAAAATGAAGGAAGGAACTTTTTGTTTCTGTACTATTCAAAGTACTGATGAGAAG  
 ACTTTACATACACAGGCAACAGCCTTATTATAAAGCTGGATCCTGACAAACCTTTGACATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001025017  
 Insert Size: 693 bp



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<b>OTI Disclaimer:</b>	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).
<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_001025017.1</a></u> , <u><a href="#">NP_001020188.1</a></u>
<b>RefSeq Size:</b>	1756 bp
<b>RefSeq ORF:</b>	693 bp
<b>Locus ID:</b>	361992
<b>UniProt ID:</b>	<u><a href="#">Q566R0</a></u>
<b>Cytogenetics:</b>	2q34
<b>Gene Summary:</b>	Has acyl-CoA thioesterase activity towards medium and long-chain (C14 to C18) fatty acyl-CoA substrates, and probably plays a role in mitochondrial fatty acid metabolism (By similarity). Plays a role in the apoptotic process, possibly via its regulation of AKT1 activity (By similarity). [UniProtKB/Swiss-Prot Function]