

Product datasheet for **MC211697**

Them4 (NM_029431) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Them4 (NM_029431) Mouse Untagged Clone
Tag: Tag Free
Symbol: Them4
Synonyms: 2700077M13Rik; 4921507I02Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC211697 representing NM_029431
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGAGAACTGCGCTATGCGCCTGCGCACTCTTGGGGCCACGCTGCGAGGGCGCCAGGAGCAGCTA
GGAGGTTATTTCTTCTGAGAAAGTCATTCGTAAGGACTATGCTCTCCCTAACCCAGCTGGACTAAGGA
CCTCAGACTCCTTTTTGATCAGTTCATGAAGAAATGTGAAGATGGCTCCTGGAAACGCATGCCTTACAC
AGACAAAACCTACTCGAGCTATTCAAGAGTCCAAACCTTTTTGTTGACTCGAAGTTTAAAGAAAGAG
AACAAATGTCAAAGGCCAACAGTTCACCAGAAGTTTCGAGGAAGGGCTAGGCTTTGAGTATGCGATGTT
CTATAATAAAGTTGAGAAGAGGACGGTCTCCTTGTTCAGGAGGACTTCACCTGCAAGGAGTACCTGGA
TTTGTTACGGAGGTGCCATTGCAACCATCATTGATGTCACTACTGGCACGTGTGCAATTTCCGAAGGCG
TTGCCATGACTGCCAACCTCAACATCACCTATAAAAAGCCTATCCCCCTTCTTCTGTTGTTGTGGTAAA
TAGCCAACTTCAAAAAATTGAAGGAAGGAACTTTTTGTTTCTGTACTATTCAAAGTATTGATGAGAAG
ACTTTATACACAGAGGCAACGGCCTATTATAAAGCTGGATCCTGAGAAACCTTTGACATA**A**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_029431
Insert Size: 693 bp



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| 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: | <u>NM_029431.1</u> , <u>NP_083707.1</u> |
| RefSeq Size: | 1730 bp |
| RefSeq ORF: | 693 bp |
| Locus ID: | 75778 |
| UniProt ID: | <u>Q3UUI3</u> |
| Cytogenetics: | 3 F2.1 |
| Gene Summary: | 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 (PubMed:19421406).[UniProtKB/Swiss-Prot Function] |