

Product datasheet for MC210299

Them5 (NM_025416) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Them5 (NM_025416) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Them5
Synonyms:	1110007B02Rik; 1110038F21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210299 representing NM_025416 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGAGGACAAGTTTCCAGGGAGTGGCAAGACTTGTCCGCCACAAAGCTCTTTACAGAAGCCCCTGTC
TCCTGCCCAGAGTCCACCTGGCCTCAGCATTTGGTTCCTCCACAGAGTCCCTGGTTGCAAGATTCTGCC
AGAGAAGACAGATTTGAAAGATTATGCCCTTCCAATGCCAGCTGGTGTTCAGATATGCTGAGTCTGTAT
CAAGAATTTCTGAAAAAACCAATCAGGCGGCTGGATAACTACCCTCCTTCAAATCCAACAGAGATC
ATATCCAGGGCCTTAAGCTCCATTTGGGCTGGAACTGCCTCAGACAAACAGGACTGGCGCCTTTTAC
CAGGTCCATACAAGTGAAGGACAAGGCTATGAATACGTATCTTTTCCACCCATCTGAGAAGAAGTCT
GTCTGTCTTTCCAGCCAGGCCCTACCTGGAGGGGCCACAGGGTTTGTCTACGGAGGGTCACTGGCAG
CCTTGATGGATGAGACATATTCGAAAAGTGCATATCTGGCTGGAGAAGGACTATTCACACTAAGTCTAAA
CATCAAGTTCAAAAAGTTCATCCCGTGGGCTCTTTGGCTGTCTGGACATTCAAGTAGAAAAGATTGAA
GACCAGAACTCTACATGTCTGCATCGCCAGAGCAGAGACAAGCAGACCGTCTATGCCAAGTCTCCG
GTGTTTTCTTCAGCTGCAGTTGGAAGAACAGTCCCAGGAGCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_025416
Insert Size:	747 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:	NM_025416.3 , NP_079692.1
RefSeq Size:	1251 bp
RefSeq ORF:	747 bp
Locus ID:	66198
UniProt ID:	Q9CQJ0
Cytogenetics:	3 F2.1
Gene Summary:	Has acyl-CoA thioesterase activity towards long-chain (C16 and C18) fatty acyl-CoA substrates, with a preference for linoleoyl-CoA and other unsaturated long-chain fatty acid-CoA esters (By similarity). Plays an important role in mitochondrial fatty acid metabolism, and in remodeling of the mitochondrial lipid cardiolipin (PubMed:22586271). Required for normal mitochondrial function (PubMed:22586271).[UniProtKB/Swiss-Prot Function]