

Product datasheet for **MG200881**

Acot13 (NM_025790) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acot13 (NM_025790) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Acot13
Synonyms: 0610006O17Rik; Them2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200881 representing NM_025790
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGCATGACCCAGAACCTACGAGAAGTAATGAAGGTTATGTTCAAAGTCCCGGTTTTGATAGAG
TTTTGGAAAAGGTGACGCTTGTCTCGGCTGCTCCTGAGAACTAATCTGTGAGATGAAGGTGGAAGAGCA
GCATACTAATAAACTGGGCACGCTCCATGGAGGCTTGACAGCAACCTTAGTGGACAGCATCTCGACCATG
GCTCTAATGTGCACAGAAAGAGGAGCACCCGGAGTCAGTGTGGACATGAACATAACGTACATGTCACCTG
CTAAGATAGGAGAAGAAATAGTGATCACAGCACACATTCTGAAGCAAGGAAAGACACTTGCATTTGCCTC
AGTGGATCTGACCAACAAGACCACAGGAAAATTAATAGCACAAAGCAGACACACAAAACCTGGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200881 representing NM_025790
Red=Cloning site Green=Tags(s)
MSSMTQNLREVMKVMFKVPGFDRVLEKVTLVSAAPEKLICEMKVEEQHTNKLGLTHGGLTATLVDSISTM
ALMCTERGAPGVSVDNMITYMSPAKIGEEIVITAHILKQKTLAFASVDLTNKTGKLIQGRHTKHLGN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

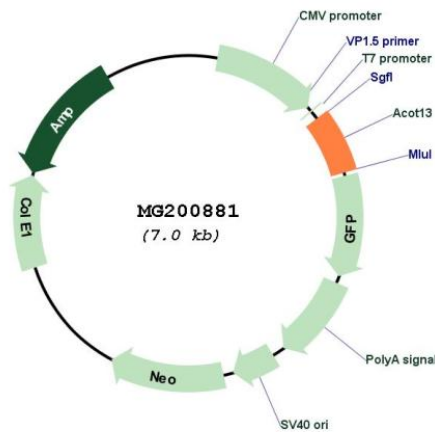


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Cloning Scheme:



Plasmid Map:



ACCN: NM_025790

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:	<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_025790.2</u>
RefSeq Size:	688 bp
RefSeq ORF:	423 bp
Locus ID:	66834
UniProt ID:	<u>Q9CQR4</u>
Cytogenetics:	13 A3.1
Gene Summary:	Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. Has acyl-CoA thioesterase activity towards medium (C12) and long-chain (C18) fatty acyl-CoA substrates. Can also hydrolyze 3-hydroxyphenylacetyl-CoA (in vitro). May play a role in controlling adaptive thermogenesis. [UniProtKB/Swiss-Prot Function]