

Product datasheet for **MG224801**

Acot1 (NM_012006) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acot1 (NM_012006) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acot1
Synonyms:	ACH2; CTE-1; CTE-I; Cte1; D12Ucla1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224801 representing NM_012006 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGACGCTGAACCTTGAGCCCTCGGGCCGACGCTGCTGGGACGAACCGTGAGCATCGCCGTGC
GCGGCTGGCCCCGAGCAGCCCGTCACGCTGCGCTCTGTCTGCGGACGAGAAGGGCGCGCTCTCCG
AGCCACGCGCGTACCAGCGGACTCCACGGCAGCTGGACCTGGCGCGACGCCCGCGCTGGCGGC
AGCTTCTCGGGCTCGAGCCCATGGGGTGTCTGGGCCATGGAGCCGATCGGCCTTTTGGCGATTGG
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GCAGCGCTTGCACATGCGGTGCACGAGCGTCACTTCTGGCTCCGGGGTGCAGCGCGTCCCGTACGA
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TTGGAGTTGGAGGTGGCCTTCTGGAGTATCGGGCAGCCTGCTGGCTGGGAAGGGCTTTGCCGTCATGGC
TCTGGCTTATTACAACACTACGATGACCTCCCAAGAACAATGGAAACCATGCACATGGAGTACTTTGAAGAA
GCCGTGAACACTGCGCAGCCACCCGAGGTAAGGACCTGGAATGGGCTGCTTGGGATTTCCAAG
GGGTGAACCTGGCCTTGTATGGCCTCCTTCTGAAGGCATCACAGCTGCTGTGGTCAATGGCTC
CGTGGCTGCTGTTGGGAACACCATCTCCTACAAGGATGAGACTATACCCCTGTGACTATCCTGAGAAAT
CAGGTCAAAATGACCAAGGATGGCCTCAAGGATGTTGTAGATGCTTTGCAAAGCCCTCTGGTAGACAAGA
AGAGTTCAATCCCGTGAAAGGTCTGACACGACCTTCTGTTCCCTCGTAGGTCAGGACGACCACAACCTG
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TCCTGGTGGTGCCAACATCACCTTTGGAGGGGAGCCCAAGCCTCATGCCATGGCCAGTTGGATGCATG
GCAGCAGCTCCAGACTTCTTCCACAAACAGTTGGGTAGTGTGTTGCATGTGTCTCTAAAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224801 representing NM_012006
 Red=Cloning site Green=Tags(s)

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MEATLNLEPSGRSCWDEPLSI AVRGLAPEQPVT LRSVLRDEK GALFRAHARYRADSHGELDLARTPALGG
SFSGLEPMGLLWAMEPDRPFWR LVKRDVQTPFVVELEVL DGHEDGGQRLAHAVHERHFLAPGVRVPVR
EGRVRATLFLPPEPGPFPGI IDLFGVGGGLLE YRASLLAGKGFAYMALAYNYDDL PKNMETMHMEYFEE
AVNYLRSHPEVKGPGIGILL GISKGGELGLAMASF LKGITAAVVINGSVA AVGNTISYKDETIPPVTILRN
QVKMTKDGLKDVVDALQSP LVDKKSFIPVERSDT TFLFLVQDDHNWKSEFYADEISKRLQAHGKEKPQI
ICYPAAGHYIEPPYFPLCS AGMHLLVGANITFGG EPKPHAMAQLDAWQQLQ TFFHKQLGSECLHVSFKI
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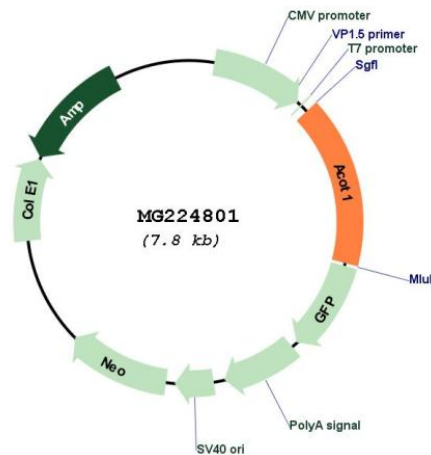
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012006

ORF Size:	1257 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:	NM_012006.2 , NP_036136.1
RefSeq Size:	1559 bp
RefSeq ORF:	1260 bp
Locus ID:	26897
UniProt ID:	O55137
Cytogenetics:	12 39.0 cM
Gene Summary:	Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating intracellular levels of acyl-CoAs, free fatty acids and CoASH. More active towards saturated and unsaturated long chain fatty acyl-CoAs (C12-C20).[UniProtKB/Swiss-Prot Function]