

Product datasheet for **MG204894**

Acot5 (BC016076) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acot5 (BC016076) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acot5
Synonyms:	BC016076; PTE-lc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204894 representing BC016076 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGCCAAACAGTAAGCCTGGAGCCACGGGCCACAGCTGCTGGGACGAACCGCTGAGCATCGCTGTGC
 GCGGCTTGGCCCCGAGCAGCCCGTCACACTGCGCACTGCCCTGCGCGACGAGAAGGGCGCGCTCTTCCG
 AGCCACGCGCGCTACCGCGCGGACTCCACGGCGAGCTGGACCTGGCGCGCACGCCCGCGCTGGCGGC
 AGCTTCTCGGGGCTCGAGCCCATGGGGCTGCTCTGGGCCATGGAGCCGATCGGCCTTTCTGGCGCCTGA
 TCAAGCGCGACGTGCAGACGCCCTTCGTGGTGGAGCTGGAGGTGCTGGACGGACACGAGCCCGACGCGG
 GCGGCTGCTGGCGCGGGCGGTGCACGAGCGTCACTTCATGGCTCCCGGGGTGCGGCGCGTGCCCGTGCGC
 GAGGGCCGGGTGCGCGCCACGCTCTTTCTGCCCCAGGAAGTGGACCTTTCTGGGATCATAGACCTTT
 TTGGAGTTGGAGGTGGCCTTCTGGAGTATCGGGCGAGCCTGCTGGCTGGGAAGGGCTTTGCCGTCATGGC
 TCTGGCTTATTATAAATATGATGACCTCCCTAAGGTTATAGACATCCTTCATCTGGAGTACTTTGAGGAA
 GCTGTGACCTACCTGCTCAGTCACCTCAGGTCAAGGGTCCAGGAGTTGGCCTGCTAGGGATTTCCAAG
 GGGCTGAACCTCTCCCTCTCCATGGCTTCTTCTGAAAGGCATCACGGCCGCTGTCGTAATCAATGGCGC
 CACGGTCAACGTTATTTCAACATTATACTACAAGGAAGAGAGTCTGCCTGGTTTGGGCATGCACCTAGAA
 AGGATCAAGGTCAGGACGACCACTGGAAGAGCGAGTTCTATGCCAGAGAGGCCTCCAACGCCTGCA
 GCGCACGGGAAGGAGAAGCCCCAGATTGTCTGCTACCCCAAAACAGGACACCACATTGAACCCCTTAC
 ATCCCTTGGTCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG204894 representing BC016076
 Red=Cloning site Green=Tags(s)

MVPTVSLEPTGHSCWDEPLSIAVRGLAPEQPVTLRALRDEKGFRAHARYRADSHGELDLARTPALGG
 SFSGLEPMGLLWAMEPDRPFWRLIKRDVQTPFVVELEVLDGHEPDGGRLLARAVHERHFMAGVRRVPVR
 EGRVRATLFLPPGTGPFPGIIDLFGVGGLLLEYRASLLAGKGFAYMALAYKYDDLPKVIDILHLEYFEE
 AVTYLLSHPQVKGPVGVLGISKGAELSLSMASFLKGITAAVINGATVNVISTLYYKEESLPGLGMHLE
 RIKVRTTTTGRASSMPERPPNACRRTGRRSPRLSATPKQDTTLNPLTSLGP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC016076

ORF Size: 993 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC016076](#), [AAH16076](#)

RefSeq Size: 1416 bp

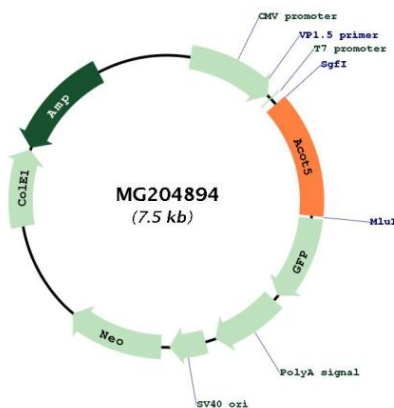
RefSeq ORF: 995 bp

Locus ID: 217698

Cytogenetics: 12 D1

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 (PubMed:16940157). Mainly active on medium-chain acyl-CoAs (PubMed:15007068). Seems to be involved in intraperoxisomal regulation of acyl-CoA levels, but not CoASH levels (PubMed:15007068). May have a function in termination of beta-oxidation of fatty acids (PubMed:15007068).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204894