

## Product datasheet for MR206642

### Acot1 (BC028261) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acot1 (BC028261) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acot1
Synonyms:	ACH2, CTE-1, CTE-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206642 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCGACGCTGAACCTTGAGCCCTCGGGCCGACGCTGCTGGGACGAACCGCTGAGCATCGCCGTGC  
GCGGCTGGCCCCGAGCAGCCCGTCACGCTGCGCTCTGTCTGCGGACGAGAAGGGCGCGCTCTCCG  
AGCCACGCGCGTACCGCGGGACTCCACGGCGAGCTGGACCTGGCGCGCACGCCCGCTGGGCGG  
AGCTTCTCGGGCTCGAGCCCATGGGGTGTCTGGGCCATGGAGCCGATCGGCCTTTTGGCGATTGG  
TCAAGCGCAGCTGCAGACGCCCTTCGTGGTGGAGCTGGAGGTGCTGGACGGACACGAGCCCGACGCGG  
GCAGCGCTTGCACATGCGGTGCACGAGCGTCACTTCTGGCTCCGGGGTGCAGCGCGTGCCCGTACGA  
GAGGGCCGGTGCAGCCACGCTCTTCTGCCCCAGAACCTGGACCCTTCTGGGATCATAGACCTTT  
TTGGAGTTGGAGGTGGCCTTCTGGAGTATCGGGCAGCCTGCTGGCTGGGAAGGGCTTTGCCGTCATGGC  
TCTGGCTTATTACAACACTACGATGACCTCCCAAGAACAATGGAAACCATGCACATGGAGTACTTTGAAGAA  
GCCGTGAACACTGCGCAGCCACCCCGAGGTAAGGACCTGGAATGGGCTGCTGGGATTTCCAAG  
GGGTGAACCTGGCCTTGTATGGCCTCCTTCTGAAGGCATCACAGCTGCTGTGGTCAATGGCTC  
CGTGGCTGCTGTTGGGAACCATCTCCTACAAGGATGAGACTATACCCCTGTGACTATCCTGAGAAAT  
CAGGTCAAATGACCAAGGATGGCCTCAAGGATGTTGTAGATGCTTTGCAAAGCCCTGGTAGACAAGA  
AGAGTTCAATCCCGTGGAAAGGTCTGACACGACCTTCTGTTCCCTCGTAGGTACGAGACGACCAACTG  
GAAGAGCGAGTTCTATGCTGATGAGATCTCCAACGCCTGCAGGCGCACGGGAAGGAGAAGCCCCAGATC  
ATCTGCTACCCAGCAGCAGGGCATTACATCGAGCCCCCTACTTCCCGCTGTGCAGCGCTGGCATGCACC  
TCCTGGTGGTGCCAACATCACCTTTGGAGGGGAGCCCAAGCCTCATGCCATGGCCAGTTGGATGCATG  
GCAGCAGCTCCAGACTTCTTCCACAAACAGTTGGGTAGTGAAGTGTTCATGTCTCCTAAAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206642 protein sequence  
 Red=Cloning site Green=Tags(s)

MEATLNLEPSGRSCWDEPLSI AVRGLAPEQPVT LRSVLRDEK GALFRAHARYRADSHGELDLARTPALGG  
 SFSGLEPMGLLWAMEPDRPFWR LVKRDVQTPFVVELEVL DGHEDGGQRLAHAVHERHFLAPGVRVPVR  
 EGRVRTLFLPPEPGPFPGIIDL FGVGGGLLE YRASLLAGKGFAYMALAYNYDDLPKNMETMHMEYFEE  
 AVNYLRSHPEVKGPGIGLLGIS KGGELGLAMASFLKGITAAV VINGSVAAVGNTISYKDETIPPVTILRN  
 QVKMTKDGLKDVVDALQSP LVKKSFI PVERS DTTFLFLV GQDDHNWKSEFYADEISKRLQAHGKEKPKI  
 ICYPAAGHYIEPPYFPLCSAGMHLLVGANITFGGEPKPHAMAQLDAWQQLQTFHFKQLGSECLHVSFKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC028261

**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:**

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:** [BC028261](#), [AAH28261](#)

**RefSeq Size:** 1587 bp

**RefSeq ORF:** 1259 bp

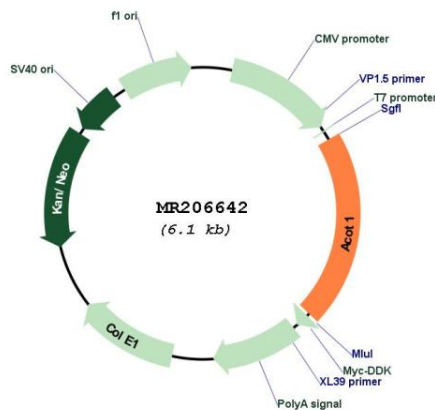
**Locus ID:** 26897

**Cytogenetics:** 12 39.0 cM

**MW:** 46.1 kDa

**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]

### Product images:



Circular map for MR206642