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# Product datasheet for MC218984

## Acot12 (NM_028790) Mouse Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Acot12 (NM_028790) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Acot12 |
| **Synonyms:** | 1300004O04Rik; 4930449F15Rik; AV027244; Cach; mCACH-1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**Fully Sequenced ORF:**

>MC218984 representing NM_028790
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCGATGGTGGCGCCGGGTGAGGTGCTCATGAGCCAGGCCATCCAGCCGGCTCATGCCGACTCCC
GCGGCGAGCTGAGCGCAGGGCAGCTGCTCAAGTGGATGGACACCACCGCTTGCCTGGCGGCCGAAAAGCA
TGCTGGGATTTCCTGTGTCACAGCCTCCATGGATGACATTCTGTTTGAGGACACAGCGAGAATTGGACAA
ATTATTACCATCAGAGCAAAAGTGACTAGGGCGTTCAGCACAAGCATGGAGATCAGTATCAAGGTCATAG
TCCAGGACAAGTTCACGGGCATCCAGAAGCTCCTCTGCGTGGCTTTCTCTACGTTTGTAGCTAAACCAGT
TGGCAAAGAAAAGGTTCACTTAAAACCTGTCCTGCTTCAAACAGAGCAAGAACAAGTGGAGCACAATCTG
GCTTCAGAGAGAAGGAAAGTCCGACTGCAGCATGAGAACACCTTCAACAACATTATGAAGGAGAGCAGCA
GGTTCAGCGATTCCATTTGTAATGAAGAAGAAGGAACGGCCACCACCATGGGCACCTCTGTCCAGAGCAT
CGAGCTTGTCCTTCCGCCCCACGCAAACCATCACGGAAACACATTTGGTGGCCAGATCATGGCATGGATG
GAGACAGTCGCCACCATTTCTGCAAGCCGCCTGTGTCATGGGCATCCCTTTCTGAAGTCTGTGGATATGT
TTAAATTCCGGGGACCGTCCACAGTTGGAGACCGCCTTGTCTTCAGTGCCATAGTCAACAACACCTTTCA
GAACAGTGTGGAAGTCGGAGTGCGTGTTGAGGCCTTTGACTGTCAGGAGTGGGCCGAGGGCCAAGGCCGC
CACATCAACAGCGCTTTTCTCATTTACAATGCTGTTGATGACCAGGAGAAACTCATCACCTTTCCCAGAA
TCCAACCCATTTCAAAGGACGATTTTCGCCGTTACCAGGGAGCCATCGCACGGAGGAGAATTCGCCTAGG
CAGGAAATATGTTATTTCCCACAAGAAAGAAGTTCCACTCAGTGCACAGTGGGATATAAGCAAAAAGGGA
TCCCTAAGTAACACCAATGTGGAAGCTCTCAAAAATCTGGCATCCAAAAGCGGTTGGGAGATTACCACCA
CCTTGGAGAAGATAAAAATATATACCCTGGAGGAGCAAGATGCCATATCTGTTAAGGTTGAAAAGCTTGT
GGGCAGTCCAGCCCACATAGCTTATCATCTCTTGTCTGACCTCACAAAGCGACCTTTATGGGACCCCCAT
TACATATCTTGTGAAGTTATAGACCAGGTGAGCGAGGACGATCAGATATATTACATCACTTGCTCGGTGG
TAAATGGAGACAAACCCAAGGACTTTGTGGTGCTTGTGTCACGAAGAAAGCCCCTCAAAGACAACAACAC
CTACACCGTGGCACTAAGGTCAGTTGTGCTGCCGTCTGTCCCGTCATCTCCACAGTACATCAGAAGTGAG
GTCATTTGTGCTGGGTTTCTCATCCAGGCTGTCGACAGCAATTCGTGCACCGTAACGTACCTGAACCAGA
TGTCAGACAGCATCCTCCCTTACTTTGCTGGCAATATTGGTGGCTGGTCAAAATCCATTGAGGAAGCTGC
AGCCTCTTGTATAAAATTCATAGAGAATGCTACTCCTGATGGACTTAAAAGTGTGTTATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_028790

**Insert Size:** 1671 bp

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_028790.3, NP_083066.1 |
| **RefSeq Size:** | 3049 bp |
| **RefSeq ORF:** | 1671 bp |
| **Locus ID:** | 74156 |
| **UniProt ID:** | Q9DBK0 |
| **Cytogenetics:** | 13 C3 |
| **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. Acyl-coenzyme A thioesterase 12/ACOT12 preferentially hydrolyzes acetyl-CoA.[UniProtKB/Swiss-Prot Function] |

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