

## Product datasheet for **MC218984**

### **Acot12 (NM\_028790) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC218984 representing NM\_028790  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTCGATGGTGGCGCCGGGTGAGGTGCTCATGAGCCAGGCCATCCAGCCGGCTCATGCCACTCCC  
 GCGGCGAGCTGAGCGCAGGGCAGCTGCTCAAGTGGATGGACACCACCGCTTGCCTGGCGCCGAAAAGCA  
 TGCTGGGATTTCTGTGTACAGCCTCCATGGATGACATTCTGTTTGAGGACACAGCGAGAATTGGACAA  
 ATTATTACCATCAGAGCAAAAGTACTAGGGCGTTGAGCACAAGCATGGAGATCAGTATCAAGGTATAG  
 TCCAGGACAAGTTCACGGGCATCCAGAAGCTCCTCTGCGTGGCTTTCTCTACGTTTGTAGCTAAACCAGT  
 TGGCAAAGAAAAGTTCACTTAAAACCTGTCTGCTTCAAACAGAGCAAGAACAAGTGGAGCACAATCTG  
 GCTTCAGAGAGAAGGAAAGTCCGACTGCAGCATGAGAACACCTTCAACAACATTATGAAGGAGAGCAGCA  
 GGTTCCAGCGATTCCATTTGTAATGAAGAAGAAGGAACGGCCACCACCATGGGCACCTCTGTCCAGAGCAT  
 CGAGCTTGTCTTCCGCCCCACGCAAACCATCACGGAAACACATTTGGTGGCCAGATCATGGCATGGATG  
 GAGACAGTCGCCACCATTCTGCAAGCCGCTGTGTATGGGCATCCCTTCTGAAGTCTGTGGATATGT  
 TTAATTCGGGGACCGTCCACAGTTGGAGACCGCTTGTCTTCAAGTCCATAGTCAACAACACCTTTCA  
 GAACAGTGTGGAAGTCCGAGTGCCTGTTGAGGCCCTTGTACTGTCAGGAGTGGGCCGAGGGCCAAGGCCGC  
 CACATCAACAGCGCTTTTCTCATTTACAATGCTGTTGATGACCAGGAGAACTCATCACCTTTCCAGAA  
 TCCAACCCATTTCAAAGGACGATTTTCGCCGTTACCAGGGAGCCATCGCACGGAGGAGAATTCGCCTAGG  
 CAGGAAATATGTTATTTCCACAAGAAAGAAAGTCCACTCAGTGCACAGTGGGATATAAGCAAAAAGGGA  
 TCCCTAAGTAACCAATGTGGAAGCTCTCAAAAATCTGGCATCCAAAAGCGGTTGGGAGATTACCACCA  
 CTTTGGAGAAGATAAAAAATATATACCCTGGAGGCAAGATGCCATATCTGTTAAGGTTGAAAAGCTTGT  
 GGGCAGTCCAGCCACATAGCTTATCATCTCTTGTCTGACCTCACAAAGCGACCTTTATGGGACCCCAT  
 TACATATCTTGTGAAGTTATAGACCAGGTGAGCGAGGACGATCAGATATATTACATCACTTGTCTGGTGG  
 TAAATGGAGACAAACCAAGGACTTTGTGGTGTCTGTGTACGAAGAAAGCCCTCAAAGACAACAACAC  
 CTACACCGTGGCACTAAGGTGAGTGTGCTGCCGTCTGTCCCCTCATCTCCACAGTACATCAGAAGTGAG  
 GTCATTTGTGCTGGGTTTCTCATCCAGGCTGTCGACAGCAATTCGTGCACCGTAACGTACCTGAACCAGA  
 TGTCAGACAGCATCCTCCCTTACTTTGCTGGCAATATTGGTGGCTGGTCAAATCCATTGAGGAAGCTGC  
 AGCCTCTTGATAAAAATTCATAGAGAATGCTACTCCTGATGGACTTAAAAGTGTGTTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**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).

**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:** [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]