

Product datasheet for **RN203259**

Acox1 (NM_017340) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acox1 (NM_017340) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Acox1
Synonyms:	aCoA; RATACOA1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN203259 representing NM_017340
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCCGACCTGCGCAAGGAGCGGGCCTCCGCCACCTTCAATCCGGAGTTGATCAGGCACATCTTGG
 ATGGCAGTCCGGAGAATACCCGGCGCCGTCGAGAAATTGAGAACTTGATTCTGAACGACCCAGACTTCCA
 GCATGAGGACTATAAATTCTCACTCGAAGCCAGCGTTATGAGGTGGCTGTTAAGAAGAGTGCCACCATG
 GTGAAGAAGATGAGGGAATATGGCATCTCGGACCTGAAGAAATCATGTGGTTTAAAAAATATATTTGG
 CCAATTTTGTGGAACCTGTTGGCCTCAATTACTCCATGTTTATTCTACCTTGCTGAATCAGGGCACCAC
 TGCTCAGCAGGAGAAATGGATGCGCCCGTCCCAAGAACTCCAGATAAATTGGCACCTACGCCCAGACGGAG
 ATGGGCCACGGAACCTCATCTTCGAGGCTTGAAACCCTGCCACATATGACCCCAAGACCAAGAGTTCA
 TTCTCAACAGCCCTACTGTGACTTCCATTAAGTGGTGGCCTGGGGGACTTGGGAAAATCTCAATCACGC
 AATAGTTCTGGCTCAGCTCATCACTCAAGGAGAGTGTACGGGTTACATGCCTTTGTTGCCCTATCCGT
 GAAATTTGGGACCCACAAGCCCTTGCCAGGCATCACTGTGCGGGATATCGGTCCCAAAATTTGGTTATGAAG
 AGATGGATAACGGCTACCTGAAGATGGACAATTACCGTATTTCCAGAGAGAATGCTGATGAAATACGC
 CCAGGTGAAGCCTGATGGCACATATGTAAGCCTTTGAGTAACAAGCTGACGTATGGGACCATGGTTTTT
 GTGAGGTCCTTCTCGTGGGAAATGCAGCTCAGAGTCTGTCCAAGGCTTGACAAATCGCCATACGATACA
 GCGCTGTGAGGCGCCAGTCTGAAATCAAGCAAAGCGAACCAGAACCACAGATTTTGGATTTTCAAACCCA
 GCAGTATAAACTTTCCCGCTCCTGGCCACTGCCTATGCCTTCCACTTCGTAGGAAGGTACATGAAGGAG
 ACCTACCTTCGAATTAATGAGAGCATTGGCCAAGGGGACCTGAGTGAACCTGCCTGAGCTTACGCCCTCA
 CTGTGGCTGAAGGCTTTTACTACTTGGACAGCCAATGCTGGCATCGAAGAATGTCGAATGGCCTGCGG
 CGGGCACGGCTATTCTCACAGCAGTGGGATTCCAAATATTTACGTCACTTTTACCCCGCCCTGCACCTTC
 GAGGGAGAGAACACTGTTATGATGCTGCAGACAGCCAGGTTCTTGATGAAAATCTACGACCAGGTGCGGT
 CGGGGAAGTTGGTGGTGGTATGGTGTACATCTGAATGACCTGCCGAGTCAGCGGATCCAGCCACAGCA
 GGTGGCAGTCTGGCCAATATGGTGGACATCAACAGCCTGGAGGGCTGACAGAAGCCTACAAGCTTCGT
 GCAGCCAGATTGGTAGAAATCGCTGCAAAAAACCTTCAGACTCACGTGAGTCACAGGAAGAGCAAGGAAG
 TAGCATGGAACCTAACCTCTGTCGACCTTGTTCGGGCAAGTGAGGCGCATTGCCACTACGTGGTCGTTAA
 GGTCTTCTCAGACAACTCCCAAGATTCAAGACAAAGCCGTCGAAGCTGTGCTGAGGAACCTGTGTCTC
 TTGTATTCTCTATGGGATCAGCCAGAAAGGAGGGGACTTTCTTGAGGGGAGCATCATCACAGGGGCTC
 AGCTGTCACAAGTAAACGCTCGGATCCTGGAGCTGCTCACCTGATCCGCCCAATGCTGTTGCTCTGGT
 GGATGCCTTTGACTTTAAGGACATGACACTTGGCTCTGTTCTTGCCCGCTATGATGGAAATGTGTATGAA
 AACTTGTTTGAGTGGGCCAAGAAATCCCACTGAACAAAACAGAGGTCCATGAATCTTACCACAAGCACT
 TGAAGCCCTGCAGTCCAAGCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_017340
Insert Size: 1986 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_017340.2](#), [NP_059036.1](#)

RefSeq Size: 2298 bp

RefSeq ORF: 1986 bp

Locus ID: 50681

UniProt ID: [P07872](#)

Cytogenetics: 10q32.1

Gene Summary: catalyzes the oxidation of fatty acyl CoA to trans-2-enoyl-CoA and peroxide [RGD, Feb 2006]