

## Product datasheet for **MC220142**

### **Acox1 (NM\_015729) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acox1 (NM_015729) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acox1
Synonyms:	A; Acox; AOX; D130055E20Rik; Paox
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220142 representing NM\_015729  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAATCCCGATCTGCGCAAGGAGCGGGCCGCCACCTTCAATCCAGAGTTAATCACGCACATCTTGG  
 ATGGTAGTCCGGAGAACACCCGGCGCCGTCGAGAAATCGAGAACTTGATTCTGAACGATCCAGACTTCCA  
 ACATGAGGACTATAAATTCTCACTCGAAGCCAGCGTTACGAGGTGGCTGTTAAGAAGAGTGCCACCATG  
 GTGAAGAAGATGAGGGAATTTGGCATCGCAGACCCTGAAGAAATCATGTGGTTTAAAACTCTGTGCACC  
 GAGGGCATCTGAGCCTTTGGACCTTCACTTGGGCATGTTCTGCCACCTTGCTTACCAGGCCACCGA  
 AGAGCAGCAGGAGCGTTTCTCATGCCGGCCTGGAATCTGGAGATCACGGGCACTTATGCGCAGACAGAG  
 ATGGGTGATGGAACATCTTCGAGGCTTGAAACCCTGCCACATATGACCCCAAGACCAAGAGTTCA  
 TTCTCAACAGCCCAACTGTGACTTCCATCAAGTGGTGGCCTGGGGGCTTGGGAAGACTTCAATCATGC  
 GATAGTCTGGCTCAGCTCATCACTCGAGGGGAGTGTACGGGTTACATGCCTTTGTTGCCCTATCCGT  
 GAGATTGGGACCCACAAGCCTCTGCCAGGCATCACTGTTGGGGATATCGGCCCAAGTTTGGTTATGAAG  
 AGATGGATAATGGCTACCTGAAGATGGACAATTACCGTATTCTAGAGAGAACATGTTGATGAAATATGC  
 CCAGGTGAAGCCTGACGGCACGTATGTA AACCTCTGAGTAACAAGCTGACATATGGGACCATGGTTTTT  
 GTAAGGTCCTTCTCGTGGGAAGTGCAGCTCAGAGTCTGTCCAAGGCATGCACATTGCCATTCGATACA  
 GTGCTGTGAGGGCCAGTCTGAAATCAAGAGAAGCGAGCCAGAGCCCAAGATTTTGGATTTTTCAGACGCA  
 GCAGTATAAACTTTCCCGCTCTGGCCACCGCTATGCCTTCCACTTCTCGGAAGATACATAAAGGAG  
 ACCTACATGCGGATTAATGAGAGCATTGGCCAAGGCGACCTGAGTGAGCTGCCTGAGCTTCATGCCCTCA  
 CAGCTGGGCTGAAGGCTTTTACTACCTGGACAGCCAATGCTGGTATCGAAGAATGTCGGATGGCTTGGCG  
 TGGGCACGGCTATTCTCACAGCAGTGGGATTCCAAATATTTACGTACGTTTACCCCGCCCTGCACCTTC  
 GAGGGGGAGAACACTGTTATGATGCTGCAGACGGCCAGGTTCTTGATGAAAATCTATGACCAGGTTCA  
 CGGGGAAGCTGGTGGTGGTATGGTGTCTGACTTGAATGACCTGCCGAGCCAGCGTATCCAGCCGACGCA  
 GGTGGCAGTCTGGCCAACCTGGTGGACATTAACAGCCTGGACAGCCTGACAGAAGCCTACAAGCTACGT  
 GCAGCCAGATTGGTAGAAATGCTGCAAAAAACCTTCAGGCCAAGTGAGTCACAGGAAGAGCAAGGAAG  
 TGGCGTGAACCTGACTTCTGTCGACCTTGTTCGCGCAAGTGAGGCGCACTGCCACTACGTGACCGTTAA  
 GGTCTTTGCAGATAAACTCCCAAGATTCAAGACAGAGCCGTGCAAGCCGTGCTGAGGAACCTGTGTCTC  
 TTATATCTCTCTATGGGATCAGCCAGAAAGAGGGGATTTTCTTGAGGGGAACATCATCAGGGGCTC  
 AGATGTCACAGGTAACAGTCCGATCCTGGAGCTGCTCACAGTACTCGCCCAACGCTGTGGCTTTGGT  
 GGATGCCTTTGACTTTAAGGATGTGACCTTGGCTCTGTTCTCGGCCGCTATGATGGCAATGTGTATGAA  
 AACTTGTTTGAGTGGGCCAAGAAGTCCCACTGAACAAGACAGAGGTCCACGAATCTTACTACAAGCACT  
 TGAAGCCCTGCAGTCAAGCTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_015729  
**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](mailto: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\\_015729.3](#), [NP\\_056544.2](#)

**RefSeq Size:** 3992 bp

**RefSeq ORF:** 1986 bp

**Locus ID:** 11430

**UniProt ID:** [Q9R0H0](#)

**Cytogenetics:** 11 E2

**Gene Summary:** This gene encodes a member of the acyl-coenzyme A oxidase family. The encoded protein is localized to peroxisomes and is the first enzyme of the fatty acid beta-oxidation pathway, which catalyzes the desaturation of acyl-coenzyme A to 2-trans-enoyl-coenzyme A. Disruption of this gene results in microvesicular steatohepatitis, spontaneous peroxisome proliferation, and the eventual development of hepatocellular carcinomas. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Transcript Variant: This variant (1) encodes isoform 1.