

Product datasheet for **MC228602**

Acox1 (NM_001271898) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acox1 (NM_001271898) 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: >MC228602 representing NM_001271898
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCCCGATCTGCGCAAGGAGCGGGCCGCCACCTTCAATCCAGAGTTAATCACGCACATCTTGG
 ATGGTAGTCCGGAGAACACCCGGCGCCGTCGAGAAATCGAGAACTTGATTCTGAACGATCCAGACTTCCA
 ACATGAGGACTATAAATTCTCACTCGAAGCCAGCGTTACGAGGTGGCTGTTAAGAAGAGTGCCACCATG
 GTGAAGAAGATGAGGGAATTTGGCATCGCAGACCCTGAAGAAATCATGTGGTTTAAAAAATACATATGG
 TCAATTTTGTGGAACCTGTTGGCCTCAATTACTCCATGTTTATCCCTACCTTGCTGAATCAGGGCACCAC
 TGCTCAGCAGGAGAAATGGATGCACCCGTCCTCAAGAACTCCAGATAAATGGCACCTACGCCAGACGGAG
 ATGGGCCACGGAACCTCATCTTCGAGGCTTGAAACCCTGCCACATATGACCCCAAGACCAAGAGTTCA
 TTCTCAACAGCCCAACTGTGACTTCCATCAAGTGGTGGCCTGGGGGCTTGGGAAGACTTCCAATCATGC
 GATAGTCTGGCTCAGCTCATCACTCGAGGGGAGTGTACGGGTTACATGCCTTTGTTGCCCTATCCGT
 GAGATTGGGACCCACAAGCCTCTGCCAGGCATCACTGTTGGGGATATCGGCCCAAGTTTGGTTATGAAG
 AGATGGATAATGGCTACCTGAAGATGGACAATTACCGTATTCTAGAGAGAATGTTGATGAAATATGC
 CCAGGTGAAGCCTGACGGCACGTATGTAACCTCTGAGTAACAAGCTGACATATGGGACCATGGTTTTTC
 GTAAGGTCCTTCTCGTGGGAAGTGCAGCTCAGAGTCTGTCCAAGGCATGCACCATTTGCCATTCGATACA
 GTGCTGTGAGGGCCAGTCTGAAATCAAGAGAAGCGAGCCAGAGCCCAAGATTTTGGATTTTCAGACGCA
 GCAGTATAAACTTTCCCGCTCTGGCCACCGCTATGCCTTCCACTTTCTCGGAAGATACATAAAGGAG
 ACCTACATGCGGATTAATGAGAGCATTGGCCAAGGCGACCTGAGTGAGCTGCCTGAGCTTCATGCCCTCA
 CAGCTGGGCTGAAGGCTTTTACTACCTGGACAGCCAATGCTGGTATCGAAGAATGTCGGATGGCTTGGCG
 TGGGCACGGCTATTCTCACAGCAGTGGGATTCCAAATATTTACGTCACGTTTACCCCGCCCTGCACCTTC
 GAGGGGGAGAACACTGTTATGATGCTGCAGACGGCCAGGTTCTTGATGAAAATCTATGACCAGGTTCACT
 CGGGGAAGCTGGTGGTGGTATGGTGTCTGACTTGAATGACCTGCCGAGCCAGCGTATCCAGCCGCAGCA
 GGTGGCAGTCTGGCCAACCTGTTGGACATTAACAGCCTGGACAGCCTGACAGAAGCCTACAAGCTACGT
 GCAGCCAGATTGGTAGAAATGCTGCAAAAACCTTCAGGCCAAGTGAATCACAGGAAGAGCAAGGAAG
 TGGCGTGAACCTGACTTCTGTCGACCTTGTTCGCGCAAGTGAGGCGCACTGCCACTACGTGACCCTTAA
 GGTCTTTGCAGATAAACTCCCAAGATTCAAGACAGAGCCGTGCAAGCCGTGCTGAGGAACCTGTGTCTC
 TTATATCTCTATGGGATCAGCCAGAAAGAGGGGATTTTCTTGGGGGAACATCATCACAGGGGCTC
 AGATGTACAGGTAACAGTCCGATCCTGGAGCTGCTCACAGTACTCGCCCAACGCTGTGGCTTTGGT
 GGATGCCTTTGACTTTAAGGATGTGACCCTGGCTCTGTTCTCGGCCGCTATGATGGCAATGTGTATGAA
 AACTTGTTTGAGTGGGCCAAGAAGTCCCACTGAACAAGACAGAGGTCCACGAATCTTACTACAAGCACT
 TGAAGCCCTGCAGTCAAGCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271898

Insert Size: 1986 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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:	<u>NM_001271898.1, NP_001258827.1</u>
RefSeq Size:	3992 bp
RefSeq ORF:	1986 bp
Locus ID:	11430
UniProt ID:	<u>Q9R0H0</u>
Cytogenetics:	11 E2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is the same length as isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>