

Product datasheet for **MR209849**

Acox1 (NM_015729) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acox1 (NM_015729) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide
Sequence:**

>MR209849 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATCCCGATCTGCGCAAGGAGCGGGCCGCCACCTTCAATCCAGAGTTAATCACGCACATCTTGG
 ATGGTAGTCCGGAGAACACCCGGCGCCGTCGAGAAATCGAGAACTTGATTCTGAACGATCCAGACTTCCA
 ACATGAGGACTATAAATTCTCACTCGAAGCCAGCGTTACGAGGTGGCTGTTAAGAAGAGTGCCACCATG
 GTGAAGAAGATGAGGGAATTTGGCATCGCAGACCCTGAAGAAATCATGTGGTTTAAAACTCTGTGCACC
 GAGGGCATCTGAGCCTTTGGACCTTCACTTGGGCATGTTCTGCCACCTTGCTTACCAGGCCACCGA
 AGAGCAGCAGGAGCGTTTCTCATGCCGGCCTGGAATCTGGAGATCACGGGCACTTATGCGCAGACAGAG
 ATGGGTGATGGAACATCTTCGAGGCTTGAAACCCTGCCACATATGACCCCAAGACCAAGAGTTCA
 TTCTCAACAGCCCAACTGTGACTTCCATCAAGTGGTGGCCTGGGGGCTTGGGAAGACTTCAATCATGC
 GATAGTCTGGCTCAGCTCATCACTCGAGGGGAGTGTACGGGTTACATGCCTTTGTTGCCCTATCCGT
 GAGATTGGGACCCACAAGCCTCTGCCAGGCATCACTGTTGGGGATATCGGCCCAAGTTTGGTTATGAAG
 AGATGGATAATGGCTACCTGAAGATGGACAATTACCGTATTCTAGAGAGAATGTTGATGAAATATGC
 CCAGGTGAAGCCTGACGGCACGTATGTA AACCTCTGAGTAAACAAGCTGACATATGGGACCATGGTTTTT
 GTAAGGTCCTTCTCGTGGGAAGTGCAGCTCAGAGTCTGTCCAAGGCATGCACATTGCCATTCGATACA
 GTGCTGTGAGGCGCCAGTCTGAAATCAAGAGAAGCGAGCCAGAGCCCAAGATTTTGGATTTTCAGACGCA
 GCAGTATAAACTTCCCGCTCTGGCCACCGCTATGCCTTCCACTTCTCGGAAGATACATAAAGGAG
 ACCTACATGCGGATTAATGAGAGCATTGGCCAAGGCGACCTGAGTGAGCTGCCTGAGCTTCATGCCCTCA
 CAGCTGGGCTGAAGGCTTTTACTACCTGGACAGCCAATGCTGGTATCGAAGAATGTCGGATGGCTTGC
 TGGGCACGGCTATTCTCACAGCAGTGGGATTCCAAATATTTACGTCACGTTTACCCCGGCCTGCACCTT
 GAGGGGGAGAACACTGTTATGATGCTGCAGACGGCCAGGTTCTTGATGAAAATCTATGACCAGGTTCA
 CGGGGAAGCTGGTGGTGGTATGGTGTGCTACTTGAATGACCTGCCGAGCCAGCGTATCCAGCCGACGCA
 GGTGGCAGTCTGGCCAACCTGTTGGACATTAACAGCCTGGACAGCCTGACAGAAGCCTACAAGCTACGT
 GCAGCCAGATTGGTAGAAATGCTGCAAAAAACCTTCAAGCCCAAGTGAAGTACAGGAAGAGCAAGGAAG
 TGGCGTGAACCTGACTTCTGTCGACCTTGTTCGCGCAAGTGAAGGCGCACTGCCACTACGTGACCCTTAA
 GGTCTTTGCAGATAAACTCCCAAGATTCAAGACAGAGCCGTGCAAGCCGTGCTGAGGAACCTGTGTCTC
 TTATATCTCTCTATGGGATCAGCCAGAAAGAGGGGATTTTCTTGAAGGGAACATCATCAGGGGCTC
 AGATGTCACAGGTAACAGTCCGATCCTGGAGCTGCTCACAGTACTCGCCCAACGCTGTGGCTTTGGT
 GGATGCCTTTGACTTTAAGGATGTGACCTTGGCTCTGTTCTCGGCCGCTATGATGGCAATGTGTATGAA
 AACTTGTTTGAGTGGCCAAGAAGTCCCACTGAACAAGACAGAGGTCCACGAATCTTACTACAAGCACT
 TGAAGCCCTGCAGTCAAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209849 protein sequence
 Red=Cloning site Green=Tags(s)

MNPDLRKERAAATFNPELITHILDGSPENTRRRREIENLILNDPDFQHEDYNFLTRSQRVEVAVKKSATM
 VKKMFREFGIADPEEIMWFKNSVHRGHPEPLDLHLMFLPTLLHQATEEQERFFMPAWNLEITGTYAQTE
 MGHGTHLRGLETTATYDPKTQEFILNSPTVTSIKWPPGGLGKTSNHAIVLAQLITRGECYGLHAFVPIR
 EIGTHKPLPGITVGDIGPKFGYEEMDNGYLKMDNYRIPRENMLMKYAQVKPDGTYYKPLSNKLTYGTMVF
 VRSFLVGSAAQSLSKACTIAIRYSAVRRQSEIKRSEPEPQILDFQTQQYKLFPLLATAYAFHFLGRYIKE
 TYMRINESIGQGDLSELPELHALTAGLKAFTTWTANAGIEECRMACGGHGYSHSSGIPNIYVTFTPACTF
 EGENTVMMLQTARFLMKIYDQVQSGKLVGGMVSYLNDLPSQRIQPQVAVWPTLVDINSLDSLTEAYKLR
 AARLVEIAAKNLQAQVSHRKSKEVAVNLTSDVLRASEAHCHYVTVKVFADKLPKIQDRAVQAVLRNLCL
 LYSLYGISQKGGDFLEGNIITGAQMSQVNSRILELLTVTRPNAVALVDAFDKDVTLGSVLGRYDGNVYE
 NLFEWAKKSPLNKTEVHESYYKHLKPLQSKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

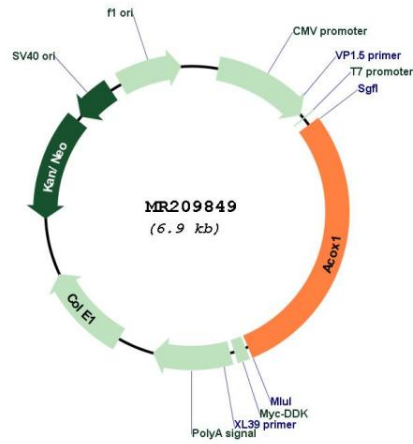


ACCN: NM_015729

ORF Size: 1986 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_015729.3, NP_056544.2</p>
RefSeq Size:	<p>3992 bp</p>
RefSeq ORF:	<p>1986 bp</p>
Locus ID:	<p>11430</p>
UniProt ID:	<p>Q9R0H0</p>
Cytogenetics:	<p>11 E2</p>
MW:	<p>74.7 kDa</p>
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>

Product images:



Circular map for MR209849