

Product datasheet for **SC316795**

ACOX3 (NM_001101667) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACOX3 (NM_001101667) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACOX3
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001101667, the custom clone sequence may differ by one or more nucleotides

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ATGGCATCCACTGTGGAAGGAGGCGACACAGCTCTGCTCCCAGAATCCCCAGGGGGCCC
CTCGATGCCTACCGAGCAAGAGCGTCTTCAGCTGGAAGGAGCTGGCGTGTTACAGGAA
GGGGAGGGCATGCTCCGCTTTAAGAAAACCATCTTCTCAGCTCTTGAGAATGACCCTCTT
TTCGCTCGTCCCTGGAGCCGATCTGTCCTTGGAGAAGTATCGCGAGCTGAACCTCCTT
CGATGCAAGCGGATCTTCGAGTATGACTTCCTCAGTGTCTGAAGACATGTTCAAGAGCCCT
CTGAAGGTCCCCGCCTTGATTCAGTGCCTGGGCATGTATGACTCTTCTCTGGCTGCCAAG
TACCTCCTCCATAGCTTGGTTTTTGGATCAGCAGTTTACAGTTCTGGTTCTGAAAGACAT
CTCACATATATTCAAAAGATCTTCAGGATGGAGATTTTTGGATGTTTTGCTCTGACCGAA
TTAAGCCACGGCAGTAATACCAAGGCCATTGCGACAACCTGCCACTACGATCCTGCCACT
GAGGAATTCATCATACTCCCTGATTTGGAAGCTGCCAAGTTTTGGTTGGCAACATG
GGCAAGACAGCCACTCACGCGTGGTGTGTTGCTAAGCTGTGTGCCAGGGGACCAGTGC
CATGGGCTGCATCCCTTATCGTGCAGATCCGGGACCCGAAGACCCTTCTCCATGCCT
GGAGTGATGGTTGGCGACATAGGAAAAAACTCGGGCAGAACGGTCTGGATAATGGTTTC
GCCATGTTCCACAAGGTAGAGTTCCTCGCCAGAGCCTTCTGAACCGGATGGGAGACGTC
ACCCCCGAGGGCACCTATGTCAGCCCTTTAAGGACGTACGGCAGCGCTTGGAGCGTCC
CTGGGGAGCCTGTCTCGGGCCGGTCTCCATCGTGAGCCTGGCCATCCTTAACCTAAAG
CTGGCCGTGGCCATCGCTCTTCGCTTCTCAGCCACTCGGCGTCAGTTGGACCCACAGAG
GAGGAGGAAATACCAGTGCTTGAGTATCCAATGCAGCAATGGCGCTTGTCTCCATATCTG
GCAGCTGTCTACGCTTAGACATTTCTCAAGTCGCTTCTCCTGGACCTGGTGGAGTCC
CAGCGAGGACTTGATCGGGAGACCGCAGCGCCAGACAGGACAGCTTGGACGTGAGATC
CACGCCCTGGCATCGGCCAGCAAGCCCTGGCCTCGTGGACCACCCAGCAAGGAATTCAG
GAATGCCGGGAGCGTGTGGAGGACACGGCTATCTGGCCATGAACCGGTTGGGTGTCCTT
AGAGATGACAACGATCCCAACTGCACATACGAAGGTGACAACAACATCCTGCTGCAGCAG
ACAAGCAACTATTTGCTGGGTCTCCTGGCACACCAGGTCCACGATGGAGCTTGTCTCCGC
AGTCCGCTGAAGTCAGTGGACTTCTGGACGCCTATCCCGGCATCCTTGACCAGAAGTTT
GAGGTCTCCAGTGTGCGGACTGCTTGGACTCTGCAGTCGCCCTGGCAGCATAACAAGTG
CTGTTTTGCTACCTGCTCCGAGAGACTTATCAAAAATTAACCAAGAGAAAAGATCAGGA
AGCAGTGACTTTGAAGCAAGGAACAAATGCCAGGTGTCCACGGCCGTCCTTGGCGCTG
GCCTTCGTGGAGCTCACGGTGGTCCAGAGTTCACAGACAGTGCACCAGCCTTCGCTG
CCGCCCTCGTGCGGGCCGTGCTGGGGCGGCTCAGTGCTGTACGCCCTGTGGTCCCTG
AGCCGCCACGCGCCCTGCTCTACCGAGCTGAAAGACGATGCAGTTGCCCTGGTAGACGT
GATCGCTCCTCC
    
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Restriction Sites: Please inquire

ACCN: NM_001101667

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001101667.1</u> , <u>NP_001095137.1</u>
RefSeq Size:	2822 bp
RefSeq ORF:	1875 bp
Locus ID:	8310
UniProt ID:	<u>O15254</u>
Cytogenetics:	4p16.1
Protein Pathways:	alpha-Linolenic acid metabolism, Biosynthesis of unsaturated fatty acids, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
Gene Summary:	<p>Acyl-Coenzyme A oxidase 3 also known as pristanoyl-CoA oxidase (ACOX3) is involved in the desaturation of 2-methyl branched fatty acids in peroxisomes. Unlike the rat homolog, the human gene is expressed in very low amounts in liver such that its mRNA was undetectable by routine Northern-blot analysis or its product by immunoblotting or by enzyme activity measurements. However the human cDNA encoding a 700 amino acid protein with a peroxisomal targeting C-terminal tripeptide S-K-L was isolated and is thought to be expressed under special conditions such as specific developmental stages or in a tissue specific manner in tissues that have not yet been examined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region, which results in a frameshift and an early stop codon, compared to variant 1. The encoded isoform (b) is shorter compared to isoform a.</p>