

## Product datasheet for **RC222573**

### **ACOX3 (NM\_001101667) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ACOX3 (NM_001101667) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACOX3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC222573 representing NM\_001101667  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCATCCACTGTGAAGGAGGCGACACAGCTCTGCTCCAGAATCCCCAGGGGGCCCTCGATGCCT  
 ACCGAGCAAGAGCGTCTTCAGCTGGAAGGAGCTGGCGCTGTTACGGAAGGGGAGGGCATGCTCCGCTT  
 TAAGAAAACCATCTTCTCAGCTCTTGAGAAATGACCCCTTTTTCGCTCGTCCCTGGAGCCGATCTGTCC  
 TTGGAGAAGTATCGCGAGCTGAACCTCCTTCGATGCAAGCGGATCTTCGAGTATGACTTCCTCAGTGTCC  
 AAGACATGTTCAAGAGCCCTCTGAAGTCCCGCCTTGATTAGTGCCTGGGCATGTATGACTCTTCTCT  
 GGCTGCCAAGTACCTCCTCCATAGCTTGGTTTTGGATCAGCAGTTTACAGTTCTGGTTCTGAAAGACAT  
 CTCACATATTTCAAAGATCTCAGGATGGAGATTTTGGATGTTTTGCTCTGACCGAATTAAGCCACG  
 GCAGTAATACCAAGGCCATTCGCACAACGCCACTACGATCCTGCCACTGAGGAATTCATACATACATTC  
 CCCTGATTTCAAGCTGCCAAGTTTTGGTTGGCAACATGGGCAAGACAGCCACTCACGGGTGGTGT  
 GCTAAGCTGTGTGTGCCAGGGGACCAGTGCCATGGGCTGCATCCCTTTATCGTGCAGATCCGGGACCCGA  
 AGACCTTCTTCCATGCCTGGAGTGATGGTTGGCGACATAGGAAAAAACTCGGGCAGAACGGTCTGGA  
 TAATGGTTTCGCCATGTTCCACAAGGTCAGAGTTCCTCGCCAGAGCCTTCTGAACCGGATGGGAGACGTC  
 ACCCCCGAGGGCACCTATGTGAGCCCTTTAAGGACGTCAGGCAGCGCTTGGAGCGTCCCTGGGGAGCC  
 TGTCTCGGGCCGGGTCTCCATCGTGAGCCTGGCCATCCTAACCTAAAGCTGGCCGTGGCCATCGCTCT  
 TCGCTTTCAGCCACTCGCGCTCAGTTTGGACCCAGAGGAGGAGAAATACAGTGTGAGTATCCA  
 ATGCAGCAATGGCGCTTGTCTCCATATCTGGCAGCTGTCTACGCCTTAGACCATTTCTCCAAGTCGCTCT  
 TCCTGGACCTGGTGGAGCTCCAGCGAGGACTTGATCGGGAGACCGCAGCGCCAGACAGGAGAGAGCTTGG  
 AAGTGTGAGATCCACGCCCTGGCATCGGCCAGCAAGCCCTGGCCTCGTGGACACCCAGCAAGGAATTCAG  
 GAATGCCGGGAGGCGTGTGGAGGACACGGCTATCTGGCCATGAACCGGTTGGGTGCTTCTAGAGATGACA  
 ACGATCCCAACTGCACATACGAAGGTGACAACAACATCCTGCTGCAGCAGACAAGCAACTATTTGCTGGG  
 TCTCTGGCACACCAGGTCCACGATGGAGCTTGTCTCCGAGTCCGCTGAAGTCAGTGGACTTTCTGGAC  
 GCCTATCCCGGCATCCTTGACCAGAAGTTGAGGTCTCCAGTGTGCGGACTGCTTGACTCTGCAGTCCG  
 CCCTGGCAGCATAACAAGTGGCTGGTTTGTACCTGCTCCGAGAGACTTATCAAAAATTAACCAAGAGAA  
 AAGATCAGGAAGCAGTGACTTTGAAGCAAGGAACAATGCCAGGTGTCCACGGCCGTCCGTTGGCGCTG  
 GCCTTCGTGGAGCTCACGGTGGTCCAGAGTTCACAGCAGCAGTGCACCAGCCTCCGTGCCGCCCTCGC  
 TCGGGCCGTGCTGGGGCGGCTCAGTGTCTGTACGCCCTGTGGTCCCTGAGCCGCCACGGCCCTGCT  
 CTACCGAGCTGAAAGACGATGCAGTTGCCCTGGTAGACGTGATCGCTCCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222573 representing NM\_001101667  
 Red=Cloning site Green=Tags(s)

MASTVEGGDTALLPEFPRGPLDAYRARASFSWKEALLFTEGEGMLRFKKTIFSALENDPLFARSPGADLS  
 LEKYRELNFLRCKRIFEYDFLSVEDMFKSPLKVPALIQCLGMYDSSLAAKYLLHSLVFGSAVYSSGSERH  
 LTYIQKIFRMEIFGCFALTELSHGSNTKAIRTTAHYDPATEEFIIHSPDFEAAKFWVGNMGKTATHAVVF  
 AKLCVPGDQCHLHPFIVQIRDPKTLTPMPGVMVGDIGKLLGQNLNDFAMFHKVVRVPRQSLNRMGDV  
 TPEGTYVSPFKDVRQRFASLGLSSGRVSIIVSLAILNLKLAVALRFSATRRQFGPTEEEEIPVLEYP  
 MQQWRLLPYLAAYVALDHFASKSLFLDLVELQRGLASGDRSARQAELEGREIHALASASKPLASWTTQQGIQ  
 ECREACGGHGYLAMNRLGVLRDDNDPNCTYEGDNNILLQQTSNYLLGLLAHQVHDGACFRSPLKSVDFLD  
 AYPGILDQKFEVSSVADCLDSAVALAAYKWLVCYLLRETYQKLNQEKRSQSSDFEARNKCQVSHGRPLAL  
 AFVELTVVQRFEHVHQPSVPPSLRAVLGRLSALYALWLSRHAALLYRAERRCSCPGRDRSS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

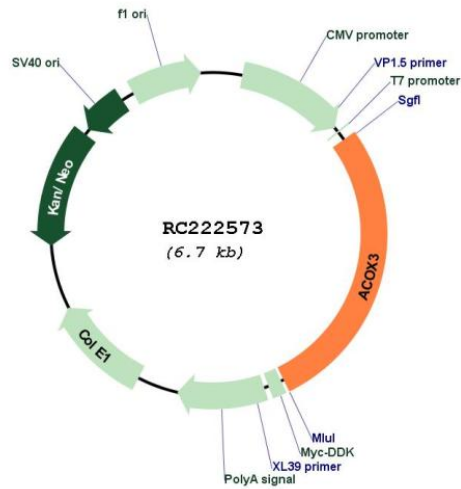
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001101667

ORF Size: 1872 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001101667.2</a>
<b>RefSeq Size:</b>	2822 bp
<b>RefSeq ORF:</b>	1875 bp
<b>Locus ID:</b>	8310
<b>UniProt ID:</b>	<a href="#">O15254</a>
<b>Cytogenetics:</b>	4p16.1
<b>Protein Pathways:</b>	alpha-Linolenic acid metabolism, Biosynthesis of unsaturated fatty acids, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
<b>MW:</b>	69.4 kDa
<b>Gene Summary:</b>	Acyl-Coenzyme A oxidase 3 also know 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]