

## Product datasheet for **SC305897**

### ACOT12 (NM\_130767) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT12 (NM_130767) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACOT12
Synonyms:	Cach; CACH-1; STARD15; THEAL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_130767 edited  
 ATGGAGCGGCCGGCGCCCGGCGAGGTGGTCATGAGCCAAGCCATCCAGCCGGCGCACGCC  
 ACTGCGCGCGGCGAGCTGAGCGCGGGCAGCTGCTCAAGTGGATCGACACCACCGCTGC  
 CTGGCGGCTGAGAAACATGCTGGAGTTTCTGCGTTACAGCCTCAGTGGATGACATACAG  
 TTTGAGGAGACAGCTAGAGTTGGACAAGTTATAACCATCAAAGCAAAAGTTACTAGAGCA  
 TTCAGCACAAGCATGGAGATCAGTATCAAGGTCATGGTACAGGATATGCTCACTGGCATT  
 GAGAAGCTTGTAGTGTGGCTTTCTCCACATTTGTAGCCAAACCAGTTGGAAAAGAAAAG  
 ATTCATTTAAAACCAGTACACTTCTAACTGAACAAGATCATGTGGAACATAATCTGGCT  
 GCTGAGAGAAGGAAAGTTTCGATTACAACATGAAGATACCTTTAACAATTTAATGAAGGAA  
 AGTAGCAAATTTGATGATCTCATTTTTGATGAAGAGGAAGGAGCGGTTTCCACAAGGGGC  
 ACCTCCGTTTCAGAGCATTGAACTGGTCTCCACCCCATGCAAACCATCACGGAAATACA  
 TTTGGTGGCCAGATTATGGCGTGGATGGAGACAGTGGCTACTATTTCTGCAAGCCGCTG  
 TGTTGGGCTCATCCCTTCTGAAGTCCGTAGATATGTTTAAAGTCCGGGGACCATCTACA  
 GTTGGAGATCGTCTTGTCTTCACTGCCATTGTCAACAATACATTTAGACCTGTGTTGAA  
 GTTGGAGTTCGCGTGGAGGCCTTTGACTGTCAGGAATGGGCCGAGGGCCGAGGGCGTCAC  
 ATCAACAGTGCTTTTCTCATTTACAATGCTGCTGATGATAAGGAAAATCTCATACGTTT  
 CCCAGAATCCAACCCATTTCAAAGGATGATTTTCAGACGCTATCGGGGAGCTATTGACCGC  
 AAGCGAATTCGCCTAGGCAGAAAATATGTTATTTCCACAAAAGAAGGTTCCACTTTGC  
 ATACACTGGGATATCAGCAAGCAGGCATCCCTGAGTGACAGCAATGTGGAGGCCCTCAA  
 AAAGTGGCAGCCAAAAGGGTTGGGAGGTTACCAGCACTGTGGAAAAGATAAAAATATAT  
 ACTCTGGAAGAGCATGATGTTTTATCTGTTTGGTTGAAAAGCACGTGGGAAGTCCAGCA  
 CATTTGGCTTATCGTCTTGTCTGACTTTACAAAGCGACCTTTGTGGGACCCCATTTT  
 GTGTCCTGTGAAGTCATAGACTGGGTGAGTGAAGATGATCAGTGTATCACATCACTGT  
 CCTATACTGAATGATGACAAACCCAAAGACTTGGTAGTACTCGTATCACGAAGAAAACCC  
 CTTCAAAGATGGTAACACTTACACAGTGGCAGTGAAGTCGGTCATTTTGCATCGGTCCCC  
 CCGTCTCCACAGTACATCAGAAGTAAAATCATATGTGCCGATTCTCATCCATGCTATT  
 GACAGCAATTCATGCATCGTATCTTACTTTAACCATATGTCTGCTAGCATCCTTCCTTAC  
 TTTGCTGGAAATCTTGGTGGCTGGTCAAATCCATTGAAGAAACAGCAGCCTCTTGTATA  
 CAGTTCTAGAGAATCCTCCTGATGATGGGTTTGAAGCACATTTTAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_130767

**Insert Size:** 1700 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:** 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).

<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_130767.1</a> , <a href="#">NP_570123.1</a>
<b>RefSeq Size:</b>	1820 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	134526
<b>UniProt ID:</b>	<a href="#">Q8WYK0</a>
<b>Cytogenetics:</b>	5q14.1
<b>Protein Pathways:</b>	Pyruvate metabolism
<b>Gene Summary:</b>	Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH (PubMed:16951743). Acyl-coenzyme A thioesterase 12/ACOT12 preferentially hydrolyzes acetyl-CoA (PubMed:16951743).[UniProtKB/Swiss-Prot Function]