

## Product datasheet for **SC122761**

### acyl CoA Thioesterase 2 (ACOT2) (NM\_006821) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	acyl CoA Thioesterase 2 (ACOT2) (NM_006821) Human Untagged Clone
Tag:	Tag Free
Symbol:	acyl CoA Thioesterase 2
Synonyms:	CTE-IA; CTE1A; MTE1; PTE2; PTE2A; ZAP128
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\_006821 edited  
 GTAGCTTTCCAACATAAAGTGGAGGTTTCAACACAGGAGACTTTAAGCAAGTTCCAGTGT  
 GTCTATATTTGGTCTGGCTGATCGGCTGGACTCTGGCCTTCCCCGCTCACGTTAGCAGAC  
 AGCTCTGCCCTAGTGGGCGCTTAGCCTGCGACGGCAGCCCGAGAGGATGTCTAACAAAGCT  
 TCTTTCTCCCCACCCCAATTCAGTTGTTCTCAGGTCTGAATTCAAAATGGCCTCATCTCC  
 TGCTGTCTTCGAGCGTCCCGGCTGTACCAATGGAGCCTGAAGAGTTCGGCGCAGTTCCT  
 GGGGTCTCCACAGCTGAGGCAGTTGGTCAGATCATTAGGGTTCCTGCTCGGATGGCGGC  
 GACGCTGATCCTGGAGCCTGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGAATCGCCGT  
 GCGCGGCCTAGCCCCGGAGCAGCCGGTACGCTGCGCGCGTCCCTGCGCGACGAGAAGGG  
 CGCGCTTTTCCAGGCCACGCGCGCTACCGCGCCGACACTCTTGGCGAGCTGGACCTGGA  
 GCGCGCGCCCGCTGGGCGGCAGCTTTCGCGGGGCTTGGAGCCATGGGGCTGCTCTGGGC  
 CTTGGAGCCCAGAAACCTTTGGTGC GGCTGGTGAAGCGCGACGTGCGAACGCCCTTGGC  
 CGTGGAGCTGGAGGTGCTGGATGGCCACGACCCCGACCCCGGGCGGCTGCTGTGCCAGAC  
 GCGGCACGAGCGTACTTCTCCCGCCCGGGTGC GGCGGAGCCGGTGC GCGTGGGCCG  
 GGTGCGAGGCACGCTCTTCTCCCGCCAGAACCTGGGCCCTTCTGGGATTGTGGACAT  
 GTTCGGAAGTGGAGGTGGCTGCTGGAGTATCGGGCTAGTCTGCTGGCTGGGAAGGGTTT  
 TGCTGTGATGGCTCTGGCTTATTATAACTATGAAGACCTCCCAAGACCATGGAGACGCT  
 CCATCTGGAGTACTTTGAAGAAGCCATGAACTACTTGGCTCAGTCAATCCCGAGGTAAGG  
 TCCAGGAGTTGGGCTGCTTGAATTTCCAAAGGGGGTGGAGCTCTGCCTTCCATGGCCTC  
 TTTCTGAAGGGCATCACGGCTGCTGTGTCATCAACGGCTCTGTGGCCAATGTTGGGG  
 AACCTTACGCTACAAGGGCGAGACCCTGCCCTGTGGGCGTCAACAGAAATCGCATCAA  
 GGTGACCAAAGATGGCTATCGAGACATTGTGGATGCTTGAACAGCCCTTGGAAAGGACC  
 TGACCAGAAGAGCTTCTTCTGTGAAAGGGCAGAGAGCACCTTCTGTTCTCTGGTAGG  
 TCAGGATGACCACAACCTGGAAGAGTGAGTTCTATGCTAATGAGGCTGTAAACGCTTGCA  
 GGCCCATGGGAGGAGAAAGCCCCAGATCATCTGTTACCCAGAGACAGGGCACTATATTGA  
 GCCTCCTTACTTCCCCCTGTGTCGGGCTTCCCTGCATGCCTTGGTGGGAGTCTATTAT  
 CTGGGGAGGGGAGCCAGGGCTCATGTCATGGCTCAGGTGGATGCTTGGAAACAACCTCA  
 GACTTTCTCCACAAACACTTGGGTGGCCACGAGGGGACAATCCCATCAAAAGTGAAT  
 TTTATTTGATCATGTGGCCTCTCTGTTGCTAATCTCTCTGGAACATCTGCCACATTTA  
 GTGTGTGATGTGATTCATTCTTTTGTTTTAAATAACTAAAGTTTTTCCCTCATTAT  
 TAAATGAATTTACCAGTAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_006821 unedited  
 NAAAACCGTCAGTTATTGTATACGAACTCACTATAGGCGGCCGCGACATTGCGACGAGGG  
 TNAGCTTTCCAACATAAAGTGGAGGTTTCAACACAGGAGACTTTAAGCAAGTTCCAGTGT  
 GTCTATATTTGGTCTGGCTGATCGGCTGGACTCTGGCCTTCCCCGCTCACGTTAGCAGAC  
 AGCTCTGCCCTAGTGGGCGCTTAGCCTGCGACGGCAGCCCGAGAGGATGTCTAACAAAGCT  
 TCTTTCTCCCCACCCCAATTCAGTTGTTCTCAGGTCTGAATTCAAAATGGCCTCATCTCC  
 TGCTGTCTTCGAGCGTCCCGGCTGTACCAATGGAGCCTGAAGAGTTCGGCGCAGTTCCT  
 GGGGTCTCCACAGCTGAGGCAGTTGGTCAGATCATTAGGGTTCCTGCTCGGATGGCGGC  
 GACGCTGATCCTGGAGCCTGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGAATCGCCGT  
 GCGCGGCCTAGCCCCGGAGCAGCCGGTACGCTGCGCGCGTCCCTGCGCGACGAGAAGGG  
 CGCGCTTTTCCAGGCCACGCGCGCTACCGCGCCGACACTCTTGGCGAGCTGGACCTGGA  
 GCGCGCGCCCGCTGGGCGGCAGCTTTCGCGGGGCTTGGAGCCATGGGGCTGCTCTGGGC  
 CTTGGAGCCCAGAAACCTTTGGTGC GGCTGGTGAAGCGCGACGTGCGAACGCCCTTGGC  
 CGTGGAGCTGGAGGTGCTGGATGGCCACGACCCCGACCCCGGGCGGCTGCTGTGCCAGAG  
 CGGCACGAGCGTACTTCTCCCGCCGGGTGCCGCGGAGCCCGTCCCGTGGCCCGGT  
 GCCAGGCAGCTCTTCTGGCGCCAGAACC GGCCCTTTCA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_006821

<b>Insert Size:</b>	1785 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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_006821.3</a> , <a href="#">NP_006812.2</a>
<b>RefSeq Size:</b>	1776 bp
<b>RefSeq ORF:</b>	1452 bp
<b>Locus ID:</b>	10965
<b>UniProt ID:</b>	<a href="#">P49753</a>
<b>Cytogenetics:</b>	14q24.3
<b>Protein Pathways:</b>	Biosynthesis of unsaturated fatty acids
<b>Gene Summary:</b>	<p>This gene encodes a member of the acyl-CoA thioesterase protein family, and is one of four acyl-CoA hydrolase genes located in a cluster on chromosome 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein.</p>