

## Product datasheet for **SC306367**

### Acyl coenzyme A Thioesterase 4 (ACOT4) (NM\_152331) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acyl coenzyme A Thioesterase 4 (ACOT4) (NM_152331) Human Untagged Clone
Tag:	Tag Free
Symbol:	Acyl coenzyme A Thioesterase 4
Synonyms:	PTE-Ib; PTE1B; PTE2B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_152331 edited  
 ATGTCAGCAACGCTGATCCTGGAGCCCCAGGCCGCTGCTGGAACGAGCCGGTGCCG  
 ATTGCCGTGCGCGCCTGGCCCCGGAGCAGCGGGTTACGCTGCGCGCTCCCTGCGCGAC  
 GAGAAGGGCGCGCTCTTCCGGGCCACGCGCGCTACTGCCCCAGCCCCGCGCGAGCTG  
 GACCTGGAGCGCCACCCGCGCTGGGCGGCAGCTTCGCGGGACTCGAGCCATGGGGCTG  
 CTCTGGGCCCTGGAACCCGAGAAGCCTTTTTGGCGCTTCTGAAGCGGGACGTACAGATT  
 CCTTTTGTGCGGAGTTGGAGGTGCTGGACGGCCACGACCCCGAGCCTGGACGGCTGCTG  
 TGCCAGGCGCAGCAGAGCGCCACTTCTCCCGCCAGGGGTGCGGCGCCAGTCCGTGCGA  
 GCGGGCCGGGTGCGCGCCACGCTTCTCCCGCCAGGACCTGGACCCTCCCAGGGATC  
 ATTGACATCTTTGGTATTGGAGGGGCTCTTGAATATCGAGCCAGCCTCCTTGCTGGC  
 CATGGCTTTGCCACGTTGGCTCTAGCTTATTATAACTTTGAAGATCTCCCAATAACATG  
 GACAACATATCCCTGGAGTACTTGAAGAAGCCGTATGCTACATGCTTCAACATCCCCAG  
 GTAAAAGGCCAGGCATTGGGCTTTTGGCATTCTCTAGGAGCTGATATTTGTCTCTCA  
 ATGGCCTCATTCTGAAGAATGTCTCAGCCACAGTTTCCATCAATGGATCTGGGATCAGT  
 GGAACACAGCCATCAACTATAAGCACAGTAGCATTCCACCATTGGGCTATGACCTGAGG  
 AGAATCAAGGTAGCTTTCTCAGGCCTCGTGGACATTGTGGATATAAGGAATGCTCTCGTA  
 GGAGGGTACAAGAACCCAGCATGATTCCAATAGAGAAGGCCAGGGGCCATCCTGCTC  
 ATTGTTGGTCAGGATGACCATAACTGGAGAAGTGAAGTTGATGCCAAACAGTCTCTGAA  
 CGGTTACAGGCCATGGAAGGAAAAACCCAGATCATCTGTTACCCTGGGACTGGGCAT  
 TACATCGAGCCTCCTTACTTCCCCTGTGCCAGCTTCCCTTACAGATTACTGAACAAA  
 CATGTTATATGGGTGGGAGGCCAGGGCTCATTCTAAGGCCAGGAAGATGCCTGGAAG  
 CAAATTCTAGCCTTCTTCTGCAACACCTGGGAGGTACCCAGAAAAACAGCTGTCCCTAA  
 TTGTAA

Restriction Sites:	Please inquire
ACCN:	NM_152331



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<b>Insert Size:</b>	1300 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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_152331.2</a> , <a href="#">NP_689544.2</a>
<b>RefSeq Size:</b>	1703 bp
<b>RefSeq ORF:</b>	1266 bp
<b>Locus ID:</b>	122970
<b>UniProt ID:</b>	<a href="#">Q8N9L9</a>
<b>Cytogenetics:</b>	14q24.3
<b>Protein Pathways:</b>	Biosynthesis of unsaturated fatty acids
<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:16940157). ACOT4 is a peroxisomal succinyl-coenzyme A thioesterase can also hydrolyze glutaryl-CoA and long chain saturated acyl-CoAs (PubMed:16940157).[UniProtKB/Swiss-Prot Function]