

## Product datasheet for **SC302856**

### ACOT6 (NM\_001037162) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT6 (NM_001037162) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACOT6
Synonyms:	C14orf42; c14_5530
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001037162 edited

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CAATCTCTACCCCAATCTCCTTGGCTTCAAAAACCTGTTTGCTTACTGTCTTTTGAG
AAACTAAAGCTCCCTGTGATTTGTGATGTTCTCCAGGCAGGGGCCCTTCTGGGATCA
TTGATCTGTTTGGGAGCAGCAGGGCCCTTGTGAATACAGGGCCAGCCTCCTGGCCGGAC
ATGGTTTTGCTGTGCTTGCCTGGCTTATTTAGATTTGAAGACCTCCCCGAAGATCTGA
ATGATGTACATCTGGAGTACTTTGAAGAAGCCGTGGACTTTATGCTGCAGCATCCAAAGG
TGAAAGGTCTAGTATTGCGCTTCTGGATTTTCAAAGGAGGTGACCTGTGTCTCTCAA
TGGCTTCTTTCTGAAGGCATCACAGCCACTGTACTTATCAATGCCTGTGTAGCCAACA
CAGTAGCTCCTACATTACAAGGATATGATTATTCCTAACTTGTGCGATGATCTAGGAA
AAGTAAAAATCACTAAGTCAGGATTTCTCACTTTTATGGACACTTGAGCAATCCACTGG
AGGAACACAATCACCAAAGTCTTGTTCATTGGAAAAGGCGCAGGTGCCCTTCTTGTTTA
TTGTTGGCATGGATGATCAAAGCTGGAAGAGTGAAATTCTATGCTCAGATAGCCTCTGAAA
GGCTACAAGCTCATGGGAAAGAAAGACCCAGATAATCTGTTACCCAGAACTGGTCACT
GTATTGACCCACCTTATTTTCTCCTTCTAGAGCTTCTGTGCACGCTGTTTTGGGTGAGG
CAATATTCTATGGAGGTGAGCCAAAGGCTCACTCAAAGGCACAGGTAGATGCCTGGCAGC
AAATTCAACTTTCTCCATAAACATCTCAATGGTAAAAAATCTGTCAAGCACAGCAAAA
TATAACATTGTAGCCACAGACCAGATACCA

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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001037162 unedited</p> <p>GAGGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCANATCTGGTACCGAGC  TCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTCAATCTCTACCCC  CAATCTCCTTGGCTTCAAAAACCTGTTTGTCTACTGTCTTTTGTAGAACTAAAGCTCCCT  GTGATTTGTGATGTTCTCCAGGCAGGGGGCCCTTCTGGGATCATTGATCTGTTTGGGA  GCAGCAGGGGCCCTTTGTGAATACAGGGCCAGCCTCCTGGCCGGACATGGTTTTGCTGTGC  TTGCCCTGGCTTATTTTCAGATTTGAAGACCTCCCGAAGATCTGAATGATGTACATCTGG  AGTACTTTGAAGAAGCCGTGGACTTTATGCTGCAGCATCCAAAGGTGAAAGGTCCTAGTA  TTGCGCTTCTTGATTTTCCAAAGGAGGTGACCTGTGTCTCTCAATGGCTTCTTTCTTGA  AGGGCATCACAGCCACTGTACTTATCAATGCCTGTGTAGCCAACACAGTAGCTCCTCTAC  ATTACAAGGATATGATTATTCCTAAACTGTGCGATGATCTAGGAAAAGTAAAACTACTA  AGTCAGGATTTCTCACTTTTATGGACACTTGGAGCAATCCACTGGAGGAACACAATCACC  AAAGTCTGTGCCATTGGAAAAGCGCAGGTGCCCTTCTGTTTTATTGTTGGCATGGATG  ATCAAAGCTGGAAGAGTGAATTTCTATGCTCAGATAGCCTCTGAAAGGCTACAAGCTCATG  GGAAAAGAAGACCCAGATAATCTGTTACCCAGAACTGGTCACTGTATTGACCCACCTT  ATTTTCTCTCTAGAGCTTCTGTGCAGCTGTTTTTGGTGAGGCAATATCTTGGGAAG  GTGAGCG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001037162 unedited</p> <p>GGGCCAACGTGAGATGCGCAACTCCCAGGNCAAGGATACAGNCACTCGGGCAGGGGT  CACAGGGAATGCCACCCGGGATCTGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAT  AGTCGAGCGGCCCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGGTATCTGGTCTG  TGGCTACAATGTTATATTTTGTGTGCTTGACAGATTTTTTACCATTGAGATGTTTATGG  AAGAAAGTTTGAATTTGCTGCCACGCATCTACCTGTGCCTTTGAGTGAGCCTTTGGCTCA  CCTCCATAGAATATTGCCTCACCCAAAACAGCGTGCACAGAAGCTCTACAAGGAGAAAA  TAAAGTGGGTCAATACAGTGACCAGTTTCTGGTAACAGATTATCTGGGGTCTTTCTTTT  CCATGAGCTTGTATCCTTTCATAGGCTATCTGAACATAGAATTCCTCTCCAGCTTTGA  TCATCCATGCCAACAAATAACAAGAAGGGCACCTGCGCTTTTCCAATGGAACAAGACTT  TGGTGATTGTGTTCTCCAGTGGATTGCTCCAAGTGTCCATAAAAAGTGAGAAATCCTGAC  TTAGTGATTTTTACTTTTCTAGATCATCGACGAGTTTACGAATAATCATATCCTTGTAA  TGTAAGGAGCTACTGTGTTGGCTACACAGGCATTGATAAGTACAGTGGCTGTGATGCC  TTCAAGAAGAAGCCATTGAGAGACACATGTCACCTGCTTTGGAAAATCCCAGCAGCGCAA  TACTAGGACCTTTCCCTTTGGATGCTGCAGCATAAAGTCCCCCGCTTCTTCAAAGTAC  TCCCAATGTACATGATTCAGATTCTCCAGGAAGTCTGCAATCTGAAAAAACTCAGGGC  AAGCCAAAAAACCATGTG</p>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001037162
<b>Insert Size:</b>	1000 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>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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_001037162.1</a> , <a href="#">NP_001032239.1</a>
<b>RefSeq Size:</b>	1004 bp
<b>RefSeq ORF:</b>	624 bp
<b>Locus ID:</b>	641372
<b>UniProt ID:</b>	<a href="#">Q3I5F7</a>
<b>Cytogenetics:</b>	14q24.3
<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). It is unclear if human acyl-coenzyme A thioesterase 6/ACOT6 has an acyl-CoA thioesterase (Probable).[UniProtKB/Swiss-Prot Function]