

## Product datasheet for SC110264

### ACOT7 (NM\_181866) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT7 (NM_181866) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACOT7
Synonyms:	ACH1; ACT; BACH; CTE-II; hBACH; LACH; LACH1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110264 sequence for NM_181866 edited (data generated by NextGen Sequencing)

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ATGGCTTTCCAGCTGAGCAGGATCATGCGGCCAGATGATGCCAACGTGGCCGGCAATGTC
CACGGGGGGACCATCCTGAAGATGATCGAGGAGGCAGGCCCATCATCAGCACCCGGCAT
TGCAACAGCCAGAACGGGGAGCGCTGTGTGGCCGCCCTGGCTCGTGTGCGAGCGCACCGAC
TTCCTGTCTCCCATGTGCATCGGTGAGGTGGCGCATGTCAGCGCGGAGATCACCTACACC
TCCAAGCACTCTGTGGAGGTGCAGGTCAACGTGATGTCCGAAAACATCCTCACAGGTGCC
AAAAAGCTGACCAATAAGGCCACCCTGTGGTATGTGCCCTGTGCTGAAGAATGTGGAC
AAGGTCTCGAGGTGCCTCCTGTGTGTATTCCCGGCAGGAGCAGGAGGAGGAGGGCCGG
AAGCGGTATGAAGCCCAGAAGCTGGAGCGCATGGAGACCAAGTGGAGGAACGGGGACATC
GTCCAGCCAGTCTCAACCCAGAGCCGAACACTGTCAGCTACAGCCAGTCCAGCTTGATC
CACCTGGTGGGGCCTTCAGACTGCACCCTGCACGGCTTTGTGCACGGAGGTGTGACCATG
AAGTCTATGGATGAGGTGCGCCGGATCGTGGCTGCACGCCACTGCAAGACCAACATCGTC
ACAGCTTCCGTGGACGCCATTAATTTTCATGACAAGATCAGAAAAGGCTGCGTCATCACC
ATCTCGGGACGCATGACCTTCACGAGCAATAAGTCCATGGAGATCGAGGTGTTGGTGGAC
GCCGACCTGTTGTGGACAGCTCTCAGAAGCGCTACCGGGCCGCCAGTGCCTTCTTACC
TACGTGTCGCTGAGCCAGGAAGGCAGGTGCTGCTGTGCCCCAGCTGGTGGCCGAGACC
GAGGACGAGAAGAAGCGCTTTGAGGAAGGCAAAGGGCGGTACCTGCAGATGAAGGCGAAG
CGACAGGGCCACGCGGAGCCTCAGCCCTAG

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Clone variation with respect to NM\_181866.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_181866 unedited            ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGTGATGCTTCCCTGCTCCCTCGCCTTCTCTGCATCTGATCCTGGGATGTCTAGCCACCATGGCTTCCAGCTGAGCAGATCATGCGGCCAGATGATGCCAACGTGGCCGGCAATGTCCACGGGGGGACCATCCTGAA GATGATCGAGGAGGCAGGCGCCATCATCAGCACCCGGCATTGCAACAGCCAGAACGGGGA GCGCTGTGTGGCCGCCCTGGCTCGTGTGAGCGCACCCACTTCCCTGTCTCCATGTGCAT CGGTGAGGTGGCGCATGTGAGCGCGGAGATCACCTACACCTCCAAGCACTCTGTGGAGGT GCAGGTCAACGTGATGTCGAAAAACATCCTCACAGGTGCCAAAAAGCTGACCAATAAGGC CACCCTGTGGTATGTGCCCTGTGCTGAAGAATGTGGACAAGGTCTCGAGGTGCCTCC TGTGTGTATTCCCGGCAGGAGCAGGAGGAGGGCCGGAAGCGGTATGAAGCCAGAA GCTGGAGCGCATGGAGACCAAGTGGAGAACGGNGACATCGTCCAGCCAGTCTCAACCC AGAGCCGAACACTGTGAGCTACAGCCAGTCCAGCTTGATCCACCTGGTGGGGCCTCAGA CTGCACCTGCACGGCTNTGTGCACGGGAGGTGTACCATGAAGCTCATGGATGAGGTGCG NCGGGATCGTGGTGCACGCCACTGCAAGACCAACATCGTACAGCTCCGTGNGACGCCA TTATTNNTCATGACAGACAGAAAAGGCTGCGTCATCACCATTCTCGGACGCATGACCTTC ACGAGCATAGTCATGGAGATCGAGGTGTGGNNGGACCCCGACCCTGTGTGGACAGTCTCA AAACGCTACCGGGCCGCGAGTGCCTTCTACCTACTGTNGCTANCCAGAAGGCAGTCTGT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_181866 unedited            GGCGGGACTCACTTCTGTGTGCTGGTGGGTCTTCCATACCCTACAGCGGGACTCGGA AAGCATTCCCAGGGTTTTCTGTCCAACGCCTGCCGGGGTACGGACAACACTGCGTGTC ATCGCTGTGGTGTGATATAACTAAAGCTTCTGTGTGTAGTTTTGCCTGAGAGATTACAG GTTAACACTGCCTTACGAAAAGTGGACAGACACCACCTTTCATTGCGCATTGGGTTTTT GGCCGCGGGGGGACTTTAAGTACTGGCACTGCGCCCGATGTCATTGGTGTCAAGG CCCCAGAGGATCGAAGAGGGAGTTACGGCTGAGGCTCCCCGTGGCCCTGTCACTATGTC TTGATCGGCGGGAACCGAAGTGGCTGTCTCAAGGCGCTGATTCGAGTTCTCAGACGCT GGCACCAACTGTGGCAGATGCGAAAACGCTGGCTTCTGGCTCTGACCCCTGCTGTGAA AAAGGCACGTGCCCGACCTTGCCTCTTTGTGCACTGAACACAACACGGTGATCATCCA CGGCCACCTATGGGTGAATGTGCTACTAGTTCGAGAAGGTGATGCCTCCTGACACGGGAC ACACCCAGGCTTGAACAACCTTGTATCATAATTTATGCTGCCACGGAAGCCCGTCTAT GCTACCCCTTGCCTCCGCTGCACCCACAATACTGTGCGACCTTATCCCTGAATTTGATG GTACACCCACACGCCACCAATCGTGTGAGCAGGCCGGAAGGACTGCCAAGCGGACCTA GTTGACAGGTGATGATTTACAGTGTGGCTTCTGTTTCGGGCCGGGTGCAACTCCCC GTGCCAATTTGGGCTAGGCGCCCGGCTTTCGGGCTGATCCCGTCCCCTTTGCTCTTCT GTTTGTGCCGGTCCCCACCGTGGTCCCCCGCTTTTTTCCCATCCCATCGCTTGCCCC CCCCATGGCGGTCTTTGGTGCTTTTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_181866
<b>Insert Size:</b>	1600 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>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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_181866.1](#), [NP\\_863656.1](#)

**RefSeq Size:** 1376 bp

**RefSeq ORF:** 990 bp

**Locus ID:** 11332

**UniProt ID:** [O00154](#)

**Cytogenetics:** 1p36.31

**Protein Pathways:** Biosynthesis of unsaturated fatty acids

**Gene Summary:** This gene encodes a member of the acyl coenzyme family. The encoded protein hydrolyzes the CoA thioester of palmitoyl-CoA and other long-chain fatty acids. Decreased expression of this gene may be associated with mesial temporal lobe epilepsy. Alternatively spliced transcript variants encoding distinct isoforms with different subcellular locations have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (hBACHd) differs in the 5' UTR and 5' coding region, compared to variant hBACHb. It encodes isoform hBACHd that has a shorter and distinct N-terminus lacking a mitochondrial targeting sequence, compared to isoform hBACHb.