

## Product datasheet for RC200200

### ACOT7 (NM\_007274) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT7 (NM_007274) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACOT7
Synonyms:	ACH1; ACT; BACH; CTE-II; hBACH; LACH; LACH1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC200200 representing NM_007274 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGGCCCGGGCTCATTATTCCGCGCCGGGCTGCCAGACACCTGCGCCCTTCTGCAGCCGCCCC  
CCGCATCCGCCCGCAGCCCCAGCATGTCGGGCCAGACGTCGAGACGCCGTCGCCATCCAGATCTG  
CCGGATCATGCGCCAGATGATGCAACGTGGCCGCAATGTCCACGGGGGACCATCCTGAAGATGATC  
GAGGAGGCAGGCCCATCATCAGCACCCGGCATTGCAACAGCCAGAACGGGGAGCGCTGTGTGGCCGCC  
TGGCTCGTGTGCGAGCGCACCGACTTCTGTCTCCCATGTGCATCGGTGAGGTGGCGCATGTGAGCGCGGA  
GATCACCTACACCTCCAAGCACTCTGTGGAGGTGCAGGTCAACGTGATGTCCGAAAACATCCTCACAGGT  
GCCAAAAGCTGACCAATAAGGCCACCCTGTGGTATGTGCCCTGTGCTGAAGAATGTGGACAAGGTCC  
TCGAGGTGCCTCCTGTTGTGATTCCCGGCAGGAGCAGGAGGAGGGCCGGAAGCGGTATGAAGCCCA  
GAAGCTGGAGCGCATGGAGACCAAGTGGAGAACGGGGACATCGTCCAGCCAGTCTCAACCCAGAGCCG  
AACACTGTCAGCTACAGCCAGTCCAGCTTGATCCACCTGGTGGGCCCTCAGACTGCACCCTGCACGGCT  
TTGTGCACGGAGGTGTGACCATGAAGCTCATGGATGAGGTGCGCCGGGATCGTGGCTGCACGCCATGCAA  
GACCAACATCGTACAGCTTCCGTGGACGCCATTAATTTTCATGACAAGATCAGAAAAGGCTGCGTCATC  
ACCATCTCGGGACGCATGACCTTACAGCAATAAGTCCATGGAGATCGAGGTGTTGGTGGACGCCGACC  
CTGTTGTGGACAGCTCTCAGAAGCGCTACCGGGCCGCGAGTGCCTTCTTACCTACGTGTCGCTGAGCCA  
GGAAGGCAGGTGCTGCTGTGCCCCAGCTGGTCCCCGAGACCGAGGACGAGAAGAAGCGCTTTGAGGAA  
GGCAAAGGGCGGTACCTGCAGATGAAGGCGAAGCGACAGGGCCACGGGAGCCTCAGCCC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200200 representing NM\_007274  
 Red=Cloning site Green=Tags(s)

MARPGLIHSAPGLPDTCALLQPPAASAAAAPSMSPGDVETPSAIQICRIMRPDDANVAGNVHGGTILKMI  
 EEAGAIISTRHCNSQNGERCVAALARVERTDFLSPMCIGEVAHVSAEITYTSKHSVEVQVNVMSENILTG  
 AKKLTNKATLWYVPLSLKNVDKLEVPVVVYSRQEQEEGRKRYEAQKLERMETKWRNGDIVQPVLNPEP  
 NTVSYSQSSLIHLVGPSDCTLHGFFVHGGVTMKLMDEVAGIVAARHCKTNIVTASVDAINFHDKIRKGCVI  
 TISGRMTFTSNKSMEIEVLVDADPVVDDSSQKRYRAASAFFTYVLSLQSEGRSLPVPQLVPETEDEKRFEE  
 GKGRYLQMKAKRQGHAEPOP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

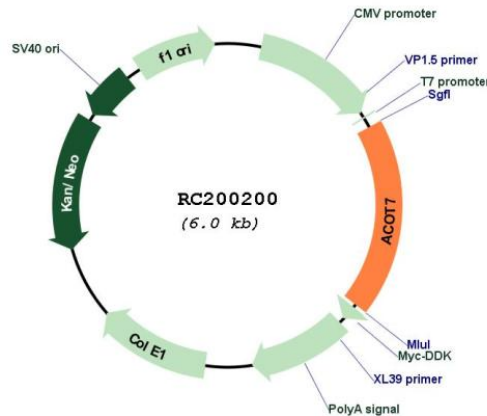
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_007274

<b>ORF Size:</b>	1110 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_007274.4</a>
<b>RefSeq Size:</b>	1814 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	11332
<b>UniProt ID:</b>	<a href="#">O00154</a>
<b>Cytogenetics:</b>	1p36.31
<b>Domains:</b>	4HBT
<b>Protein Pathways:</b>	Biosynthesis of unsaturated fatty acids
<b>MW:</b>	40.3 kDa
<b>Gene Summary:</b>	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]