

Product datasheet for RC224159

ACOT7 (NM_181866) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ACOT7 (NM_181866) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ACOT7
Synonyms: ACH1; ACT; BACH; CTE-II; hBACH; LACH; LACH1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC224159 representing NM_181866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCCAGCTGAGCAGGATCATGCGGCCAGATGATGCCAACGTGGCCGGAATGTCCACGGGGGA
 CCATCCTGAAGATGATCGAGGAGGCAGGCCCATCATCAGCACCCGGCATTGCAACAGCCAGAACGGGA
 GCGCTGTGTGGCCGCCCTGGCTCGTGTGAGCGCACCGACTTCTGTCTCCCATGTGCATCGGTGAGGTG
 GCGCATGTCAGCGCGGAGATCACCTACACCTCCAAGCACTCTGTGGAGGTGCAGGTCAACGTGATGTCCG
 AAAACATCCTCACAGGTGCCAAAAGCTGACCAATAAGGCCACCCTGTGGTATGTCCCCCTGTCGCTGAA
 GAATGTGGACAAGTCTCGAGGTGCCTCCTGTTGTGATTCCCGCAGGAGCAGGAGGAGGAGGGCCGG
 AAGCGGTATGAAGCCAGAAGCTGGAGCGCATGGAGACCAAGTGGAGGAACGGGGACATCGTCCAGCCAG
 TCCTCAACCCAGAGCCGAACACTGTGAGCTACAGCCAGTCCAGCTTGATCCACCTGGTGGGGCTTCAGA
 CTGCACCTGCACGGCTTGTGCACGGAGGTGTGACCATGAAGCTCATGGATGAGGTGCGCCGGGATCGTG
 GCTGCACGCCACTGCAAGACCAACATCGTCACAGCTTCCGTGGACGCCATTAATTTTCATGACAAGATCA
 GAAAAGGCTGCGTCATCACCATCTCGGGACGCATGACCTTACAGGCAATAAGTCCATGGAGATCGAGGT
 GTTGGTGGACGCCGACCCTGTTGTGGACAGCTCTCAGAAGCGCTACCGGGCCGCCAGTGCCTTCTCACC
 TACGTGTCGCTGAGCCAGGAAGGCAGGTGCTGCCTGTGCCCCAGCTGGTGCCCGAGACCGAGGACGAGA
 AGAAGCGCTTGTAGGAAGGCAAAGGGCGGTACCTGCAGATGAAGGCGAAGCGACAGGGCCACGCGGAGCC
 TCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224159 representing NM_181866
Red=Cloning site Green=Tags(s)

MAFQLSRIMRPDDANVAGNVHGGTILKMIEEAGAIISTRHCNSQNGERCVAALARVERTDFLSPMCIGEV
 AHVSAEITYTSKHSVEVQNVMSENILTGAKKL TNKATLWYVPLSLKNVDKVLVPPVVYSRQEQQEEGR
 KRYEAQKLERMETKWRNGDIVQVPLNPEPNTVSYSQSSLIHLVGP SDCTLHGFVHGGVTMKLMDEVAGIV
 AARHCKTNIIVTASVDAINFHDKIRKGCVITISGRMTFTSNKSMEIEVLVDADPVDSSQKRYRAASAFFT
 YVLSQEGRSLPVPQLVPETEDEKKRFEEGKGRYLQMKAKRQGHAEPPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6486_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181866

ORF Size: 987 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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_181866.3](#)

RefSeq Size: 1376 bp

RefSeq ORF: 990 bp

Locus ID: 11332

UniProt ID: [O00154](#)

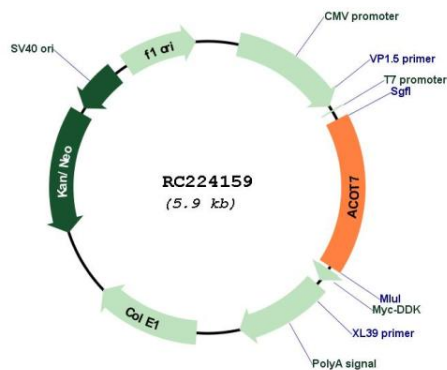
Cytogenetics: 1p36.31

Protein Pathways: Biosynthesis of unsaturated fatty acids

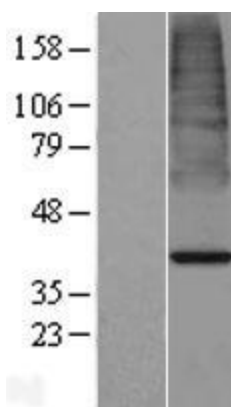
MW: 36.4 kDa

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]

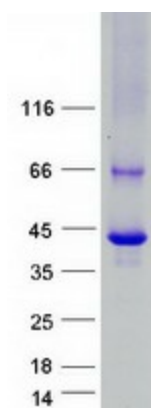
Product images:



Circular map for RC224159



Western blot validation of overexpression lysate (Cat# [LY405561]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224159 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACOT7 protein (Cat# [TP324159]). The protein was produced from HEK293T cells transfected with ACOT7 cDNA clone (Cat# RC224159) using MegaTran 2.0 (Cat# [TT210002]).