

Product datasheet for **RG213596**

ACOT7 (NM_181864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT7 (NM_181864) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACOT7
Synonyms:	ACH1; ACT; BACH; CTE-II; hBACH; LACH; LACH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213596 representing NM_181864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCTGCTTGCCAGGGCTCTCCGGCTCTGTGAGTTTGGGAGGCAGGCATCTCCAGGAGGCTGGTGG
CTGGCCAGGGATGTGTGGGGCCCCGGCAGGGTCTGCGCTCCCGTCCAGGTGGTGGGCCAGGGCTGA
TCTCCACCCTGTGGAGCTGCATTACTGGAAGGATCATGCGGCCAGATGATGCCAACGTGGCCGGCAAT
GTCCACGGGGGACCATCTGAAGATGATCGAGGAGGCAGGCCATCATCAGCACCCGGCATTGCAACA
GCCAGAACGGGGAGCGCTGTGTGGCCGCCCTGGCTCGTGTGAGCGCACCGACTTCTGTCTCCCATGTG
CATCGGTGAGGTGGCGCATGTGACGCGGAGATCACCTACACCTCCAAGCACTCTGTGGAGTGCAGGTC
AACGTGATGTCCGAAAACATCCTCACAGGTGCCAAAAGCTGACCAATAAGGCCACCCTGTGGTATGTGC
CCCTGTCGCTGAAGAATGTGGACAAGTCTCGAGGTGCCTCCTGTTGTATTCCCGGCAGGAGCAGGA
GGAGGAGGGCCGGAAGCGGTATGAAGCCAGAAGCTGGAGCGCATGGAGACCAAGTGGAGGAACGGGGAC
ATCGTCCAGCCAGTCTCAACCCAGAGCCGAACACTGTCAGCTACAGCCAGTCCAGCTTGATCCACTGG
TGGGGCCTTCAGACTGCACCCTGCACGGCTTTGTGCACGGAGGTGTGACCATGAAGCTCATGGATGAGGT
CGCCGGGATCGTGGCTGCACGCCACTGCAAGACCAACATCGTCACAGCTTCCGTGGACGCCAATAATTTT
CATGACAAGATCAGAAAAGGCTCGCTCATCACCATCTCGGGACGCATGACCTTACGAGCAATAAGTCCA
TGGAGATCGAGGTGTTGGTGGACGCCGACCCTGTTGTGGACAGCTCTCAGAAGCGCTACCGGGCCGCCAG
TGCCCTTCTCACCTACGTGTCGCTGAGCCAGGAAGGCAGGTCGCTGCCTGTGCCACAGCTGGTGCCCGAG
ACCGAGGACGAGAAGAAGCGCTTTGAGGAAGGCAAGGGCGGTACCTGCAGATGAAGGCCAAGCGACAGG
GCCACGCGGAGCCTCAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213596 representing NM_181864
 Red=Cloning site Green=Tags(s)

MKLLARALRLCEFRQASSRRLVAGQGCVGP RRGCCAPVQVVGPRADLPPCGACITGRIMRPDDANVAGN
 VHGGTILKMIIEEAGAIISTRHCNSQNGERCVAALARVERTDFLSPMCIGEVAVHSAEITYTSKHSVEVQV
 NVMSENILTGAKKLTNKATLWYVPLSLKNVDKLVLEVPV VVYSRQEQEEEGRKR YE A QKLERMETKWRNGD
 IVQPVLNPEPNTVSYSSQSLIHLVGP SDCTLHGFVHGGVTM KLMDEVAGI VAARHCKTNI V TASVDAINF
 HDKIRKGCVITISGRMTFTSNKSMEIEVLVDADPVV DSSQKRYRAASAFFTYVSLSQEGRSLPVPQLVPE
 TEDEKRRFEEGKGRYLQMKAKRQGHAE PQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181864

ORF Size: 1140 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_181864.3](#)

RefSeq Size: 1634 bp

RefSeq ORF: 1143 bp

Locus ID: 11332

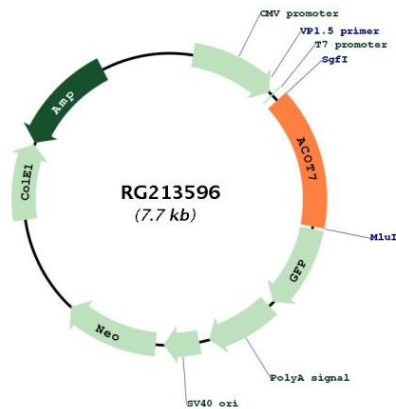
UniProt ID: [O00154](#)

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]

Product images:



Circular map for RG213596