

Product datasheet for **RC225481**

ACAA1 (NM_001130410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAA1 (NM_001130410) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACAA1
Synonyms:	ACAA; PTHIO; THIO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225481 representing NM_001130410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAGGCTGCAGGTAGTGCTGGGCCACCTGAGGGTCCGGCCGATTCCGGCTGGATGCCGAGGCCG
CGCCTTGCTGAGCGGTGCCCGCAGGCCCTCGGCCGGGACGTGGTGGTGGTGCACGGCCGGCGCACGGC
CATCTGCCGGCGGGCCGCGCGGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATGACC
GCGTTTCTCAAGGACGTGAATCTGAGGCCGAACAGCTGGGGACATCTGTGCGAAATGTGCTGCAGC
CTGGGGCCGGGCAATCATGGCCGAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCCTTTGTC
CACTGTCAATAGACAGTGTTCGTGGGGCTACAGGCAAGTGGCCAGCATAGCAGGTGGCATCAGAAATGGG
TCTTATGACATTGGCATGGCCTGTGGGATAACCTCTGAGAATGTGGCTGAGCGGTTTGGCATTTCACGGG
AGAAGCAGGATACCTTTGCCCTGGCTTCCAGCAGAAGGCAGCAAGAGCCAGAGCAAGGGCTGTTTCCA
AGCTGAGATTGTGCCTGTGACCACCACGGTCCATGATGACAAGGGCACCAGAGGAGCATCACTGTGACC
CAGGATGAGGGTATCCGCCCCAGCACCACCATGGAGGGCTGGCCAACTGAAGCCTGCCTTCAAGAAAG
ATGTTTCTACCACAGCTGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATGAGGCCCTTGAAG
CCAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTGGGGGTGCAGTG
GCCTTAGGGCACCCACTGGGCTGCACTGGGACAGCAGGTATCAGCGTCTCAATGAGCTGAAGCGCC
GTGGGAAGAGGGCATAACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCCGCTGCCGTCTTGA
ATACCCTGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225481 representing NM_001130410
Red=Cloning site Green=Tags(s)

MQRLQVVLGHLRGPADSGWMPQAAPCLSGAPQASAADVVVVHGRRTAICRAGRGGFKDTPDELLSAVMT
 AVLKDVNLRPEQLGDICVGNVLQPGAGAIMARIAQFLSDIPETVPLSTVNRQCSSLQAVASIAGGIRNG
 SYDIGMACGITSENVAERFGISREKQDTFALASQQKAARAQSKGCFQAEIVPVTITVHDDKGTKRSITVT
 QDEGIRPSTTMEGLAKLKPFAFKKDGSTTAGLTVSDVDIFEINEAFASQAAYCVEKLRLLPPEKVNPLGGAV
 ALGHPLGCTGARQVITLLNELKRRGKRAYGVVSMCI GTGMGAAAVFEYPGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130410

ORF Size: 993 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_001130410.1](#), [NP_001123882.1](#)

RefSeq ORF: 996 bp

Locus ID: 30

UniProt ID: [P09110](#)

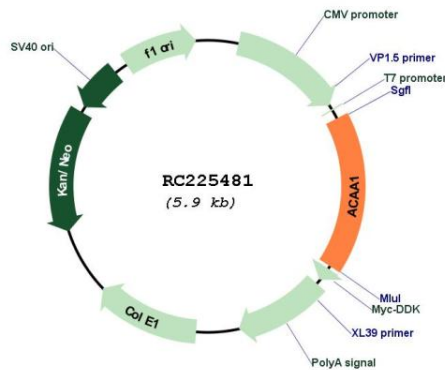
Cytogenetics: 3p22.2

Protein Pathways: Biosynthesis of unsaturated fatty acids, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway, Valine, leucine and isoleucine degradation

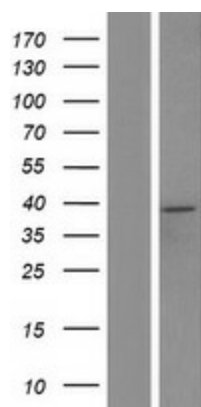
MW: 34.5 kDa

Gene Summary: This gene encodes an enzyme operative in the beta-oxidation system of the peroxisomes. Deficiency of this enzyme leads to pseudo-Zellweger syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC225481



Western blot validation of overexpression lysate (Cat# [LY427202]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225481 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).