

## Product datasheet for **RG225481**

### ACAA1 (NM\_001130410) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ACAA1 (NM\_001130410) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ACAA1  
**Synonyms:** ACAA; PTHIO; THIO  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG225481 representing NM\_001130410  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAGGCTGCAGGTAGTGCTGGGCCACCTGAGGGTCCGGCCGATTCCGGCTGGATGCCGAGGCCG  
CGCCTTGCTGAGCGGTGCCCCGAGGCCCTCGGCCGGGACGTGGTGGTGGTGCACGGCCGGCGCACGGC  
CATCTGCCGGGCGGGCCGGCGGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATGACC  
GCGGTTCTCAAGGACGTGAATCTGAGGCCGAACAGCTGGGGACATCTGTGCGAAATGTGCTGCAGC  
CTGGGGCCGGGCAATCATGGCCGAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCCTTTGTC  
CACTGTCAATAGACAGTGTTCGTGGGGCTACAGGAGTGGCCAGCATAGCAGGTGGCATCAGAAATGGG  
TCTTATGACATTGGCATGGCCTGTGGGATAACCTCTGAGAATGTGGCTGAGCGGTTTGGCATTTCACGGG  
AGAAGCAGGATACCTTTGCCCTGGCTTCCAGCAGAAGGCAGCAAGAGCCAGAGCAAGGGCTGTTTCCA  
AGCTGAGATTGTGCCTGTGACCACCACGGTCCATGATGACAAGGGCACCAAGAGGAGCATCACTGTGACC  
CAGGATGAGGGTATCCGCCCCAGCACCACCATGGAGGGCTGGCCAACTGAAGCCTGCCTTCAAGAAAG  
ATGTTTCTACCACAGCTGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATGAGGCCCTTGAAG  
CCAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTGGGGGTGCAGTG  
GCCTTAGGGCACCCACTGGGCTGCACTGGGGCAGCAGGTATCAGCTGCTCAATGAGCTGAAGCGCC  
GTGGGAAGAGGGCATAACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCCGCTGCCGCTTTGA  
ATACCCTGGGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225481 representing NM\_001130410  
 Red=Cloning site Green=Tags(s)

MQRLQVVLGHLRGPADSGWMPQAAPCLSGAPQASAADVVVHGRRTAICRAGRGGFKDTPDELLSAVMT  
 AVLKDVNLRPEQLGDIQVGNLQPGAGAIMARIAQFLSDIPETVPLSTVNRQCSSLQAVASIAGGIRNG  
 SYDIGMACGITSENVAERFGISREKQDTFALASQQKAARAQSKGCFQAEIVPVTTTVHDDKGTKRSITVT  
 QDEGIRPSTTMEGLAKLKPFAFKKDGSTTAGLTVSDVDIFEINEAFASQAAYCVEKLRPLPEKVNPLGGAV  
 ALGHPLGCTGARQVITLLNELKRRGKRAYGVVSMCI GTGMGAAAVFEYPGN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001130410

**ORF Size:** 993 bp

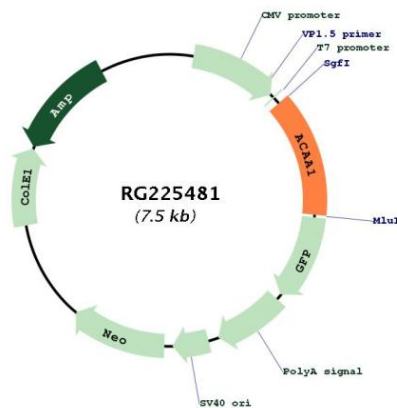
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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:	<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>
RefSeq:	<a href="#">NM_001130410.1</a> , <a href="#">NP_001123882.1</a>
RefSeq Size:	1561 bp
RefSeq ORF:	996 bp
Locus ID:	30
UniProt ID:	<a href="#">P09110</a>
Cytogenetics:	3p22.2
Protein Pathways:	Biosynthesis of unsaturated fatty acids, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway, Valine, leucine and isoleucine degradation
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 RG225481