

Product datasheet for **RG200213**

ACAA1 (NM_001607) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAA1 (NM_001607) 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:	>RG200213 representing NM_001607 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAGGCTGCAGGTAGTGCTGGGCCACCTGAGGGTCCGGCCGATTCCGGCTGGATGCCGAGGCCG
CGCCTTGCTGAGCGGTGCCCGCAGGCCCTCGGCCCGGACGTGGTGGTGCACGGCCGGCGCACGGC
CATCTGCCGGGCGGCCGCGCGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATGACC
GCGTTTCTCAAGGACGTGAATCTGAGGCCGAACAGCTGGGGACATCTGTGCGAAATGTGCTGCAGC
CTGGGGCCGGGCAATCATGGCCGAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCCTTTGTC
CACTGTCAATAGACAGTGTTCGTGGGGTACAGGACAGTGGCCAGCATAGCAGGTGGCATCAGAAATGGG
TCTTATGACATTGGCATGGCCTGTGGGGTGGAGTCCATGTCCCTGGCTGACAGAGGGAACCTGGAATA
TTACTTCGCGCTTGATGGAGAAGGAGAAGGCCAGAGATTGCCTGATTCCTATGGGGATAACCTCTGAGAA
TGTGGCTGAGCGGTTTGGCATTTCACGGGAGAAGCAGGATACCTTTGCCCTGGCTTCCAGCAGAAGGCA
GCAAGAGCCCAGAGCAAGGGCTGTTTCCAAGCTGAGATTGTGCCTGTGACCACCAGGTCCATGATGACA
AGGGCACCAGAGGAGCATCACTGTGACCAGGATGAGGGTATCCGCCCCAGCACCACCATGGAGGGCCT
GGCCAACTGAAGCCTGCCTTCAAGAAAGATGGTTCTACCACAGCTGAAACTCTAGCCAGGTGAGTGAT
GGGGCAGCTGCCATCCTGCTGGCCCGGAGGTCCAAGGCAGAAGATTGGGCTTCCCATCCTTGGGGTCC
TGAGGTCTTATGCAGTGGTTGGGGTCCCACCTGACATCATGGGCATTGGACCTGCCTATGCCATCCCAGT
AGCTTTGCAAAAAGCAGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATGAGGCCCTTGAAGC
CAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTGGGGGTGCAGTGG
CCTTAGGGCACCCTGGGCTGCACTGGGGCACGACAGGTATCACGCTGCTCAATGAGCTGAAGCGCCG
TGGGAAGAGGGCATAACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCCGCTGCCGTCTTGA
TACCCTGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200213 representing NM_001607
 Red=Cloning site Green=Tags(s)

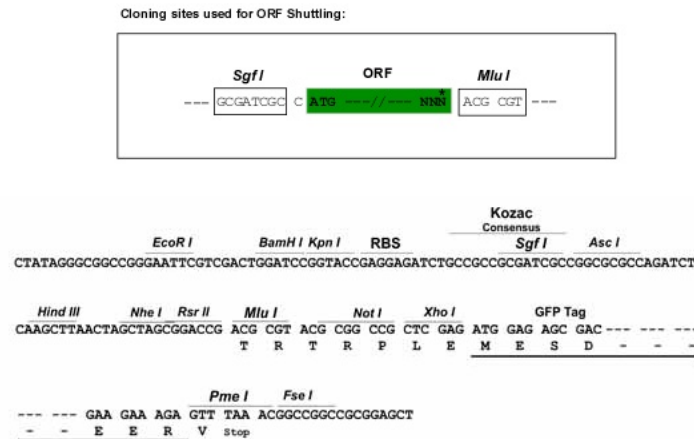
MQRLQVVLGHLRGPADSGWMPQAAPCLSGAPQASAADV VVHGRRTAICRAGRGGFKDTPDELLSAVMT
 AVLKDVNLRPEQLGDI CVGNLQPGAGAIMARIAQFLSDIPETVPLSTVNRQCSSGLQAVASIAGGIRNG
 SYDIGMACGVESMSLADRGNPGNITSRLMEKEKARDCLIPMGITSENAERFGISREKQDTFALASQOKA
 ARAQSKGCFQAEIVPVTTTTVHDDKGTKRSITVTQDEGIRPSTTMEGLAKLKPFAFKKDGSTTAGNSSQVSD
 GAAAILLARRSKAEELGLPILGVLRSYAVVGVPPDIMGIGPAYAIPVALQKAGLTVSDVDIFEINEAFAS
 QAAAYCVEKLRLPPEKVNPLGGAVALGHPLGCTGARQVITLLNELKRRGKRAYGVVSMCIGTMGAAAVFE
 YPGN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001607

ORF Size: 1272 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_001607.4](#)

RefSeq Size: 1695 bp

RefSeq ORF: 1275 bp

Locus ID: 30

UniProt ID: [P09110](#)

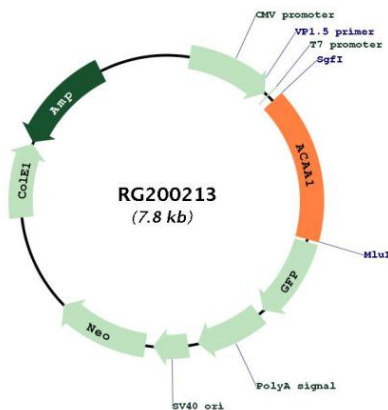
Cytogenetics: 3p22.2

Domains: thiolase

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 RG200213