

Product datasheet for **SC324948**

ACAA1 (NM_001130410) Human Untagged Clone

Product data:

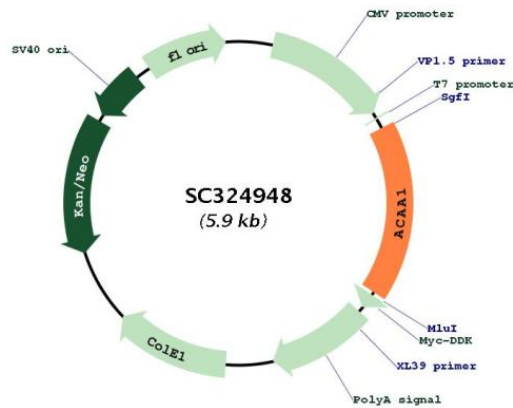
Product Type:	Expression Plasmids
Product Name:	ACAA1 (NM_001130410) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACAA1
Synonyms:	ACAA; PTHIO; THIO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324948 representing NM_001130410. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGAGGCTGCAGGTAGTGCTGGGCCACCTGAGGGGTCGGCCGATTCCGGCTGGATGCCGAGGCC
GCGCCTTGCCTGAGCGGTGCCCGCAGGCCTCGGCCGCGGACGTGGTGGTGCACGGCGCGGCACG
GCCATCTGCCGGCGGGCCGCGGCGGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATG
ACCGCGGTTCTCAAGGACGTGAATCTGAGGCCGGAACAGCTGGGGGACATCTGTGTGGAAATGTGCTG
CAGCCTGGGGCCGGGCAATCATGGCCGAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCTT
TTGTCCACTGTCAATAGACAGTGTTCGTGGGGTACAGGCAGTGCCAGCATAGCAGGTGGCATCAGA
AATGGGTCTTATGACATTGGCATGGCCTGTGGGATAACCTCTGAGAATGTGGCTGAGCGTTTGGCATT
TCACGGGAGAAGCAGGATACCTTTGCCCTGGCTTCCCAGCAGAAGGCAGCAAGAGCCAGAGCAAGGGC
TGTTTCCAAGCTGAGATTGTGCCTGTGACCACCACGGTCCATGATGACAAGGGCACCAAGAGGAGCATC
ACTGTGACCCAGGATGAGGGTATCCGCCCCAGCACCACCATGGAGGGCCTGGCCAAACTGAAGCCTGCC
TTCAAGAAAGATGGTTCTACCACAGCTGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATGAG
GCCTTTGCAAGCCAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTG
GGGGGTGACGTGGCCTTAGGGCACCCACTGGGCTGCACTGGGGCACGACAGGTCATCACGCTGCTCAAT
GAGCTGAAGCCCGTGGGAAGAGGGCATACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCC
GCTGCCGTCTTTGAATACCCTGGGAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001130410

Insert Size: 996 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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](#)

RefSeq Size: 1561 bp

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:	34.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks alternate in-frame exons, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.</p>