

Product datasheet for **SC318067**

ACAD9 (NM_014049) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAD9 (NM_014049) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACAD9
Synonyms:	MC1DN20; NPD002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

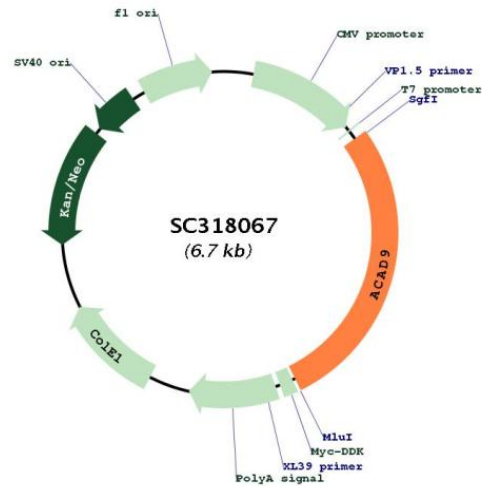


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Fully Sequenced ORF: >SC318067 representing NM_014049.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCGGCTGCGGGCTCTTCTGCGCACACGGCTGCGGCTCGTGCCTGCCGGGTCTGGTGGTCTCT
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AAAATCAAGAAGAAAGAAGTTTTCCATTTCAGAAAGTTAGCCAAGATGAACTTAATGAAATCAATCAG
TTCTTGGGACCCGTGAAAAATTCTTCACTGAAGAGGTGGACTCCCGAAAAATTGACCAGGAAGGAAA
ATCCCAGATGAACTTTGGAGAAATGAAGAGCCTAGGGCTTTTTGGGCTGCAAGTCCCAGAAGAATAT
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TGA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_014049

Insert Size: 1866 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_014049.4](#)

RefSeq Size: 2608 bp

RefSeq ORF: 1866 bp

Locus ID: 28976

UniProt ID: [Q9H845](#)

Cytogenetics:	3q21.3
Domains:	Acyl-CoA_dh, Acyl-CoA_dh_M, Acyl-CoA_dh_N
MW:	68.8 kDa
Gene Summary:	<p>This gene encodes a member of the acyl-CoA dehydrogenase family. Members of this family of proteins localize to the mitochondria and catalyze the rate-limiting step in the beta-oxidation of fatty acyl-CoA. The encoded protein is specifically active toward palmitoyl-CoA and long-chain unsaturated substrates. Mutations in this gene cause acyl-CoA dehydrogenase family member type 9 deficiency. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (1) encodes the functional protein.</p>