

Product datasheet for SC335920

ACADS (NM_001302554) Human Untagged Clone

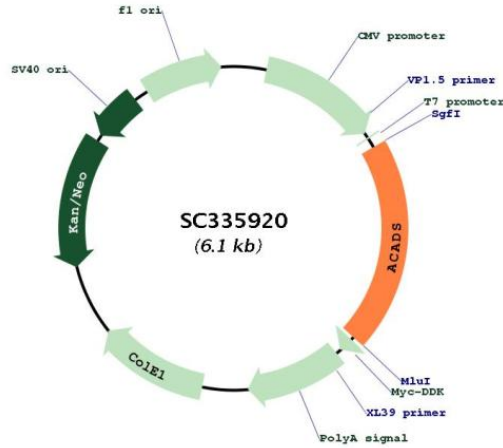
Product data:

Product Type:	Expression Plasmids
Product Name:	ACADS (NM_001302554) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACADS
Synonyms:	ACAD3; SCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335920 representing NM_001302554. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGCGCGCTGCTCGCCGGGCTCGGGCCCTGCCCGCAGAGCTCTCTGTCTAGGGCCTGGCGG
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GGCATTGCCAGACCCCTCGATTGTGCTGTGAACTACGCTGAGAATCGCATGGCCTTCGGGGCGCCC
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GTGACAGAGATGCCGGCAGAGCGGCACTACCGCGACGCCGATCACTGAGATCTACGAGGGCACCAGC
GAAATCCAGCGGCTGGTATCGCCGGGCATCTGCTCAGGAGCTACCGGAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



Plasmid Map:


ACCN: NM_001302554

Insert Size: 1227 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).

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_001302554.1](#)

RefSeq Size: 1952 bp

RefSeq ORF: 1227 bp

Locus ID: 35

UniProt ID: [P16219](#)

Cytogenetics: 12q24.31

Protein Families: Druggable Genome

Protein Pathways: Butanoate metabolism, Fatty acid metabolism, Metabolic pathways, Valine, leucine and isoleucine degradation

MW: 44 kDa

Gene Summary: This gene encodes a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in this gene have been associated with short-chain acyl-CoA dehydrogenase (SCAD) deficiency. Alternative splicing results in two variants which encode different isoforms. [provided by RefSeq, Oct 2014]
Transcript Variant: This variant (2) lacks an alternate exon and contains an alternate exon in the 3' coding region but maintains the reading frame. It encodes isoform 2 which is shorter compared to isoform 1.