

## Product datasheet for SC335781

### ACADM (NM\_001286042) Human Untagged Clone

#### Product data:

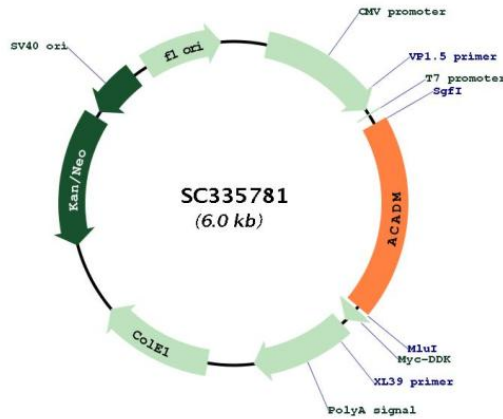
**Product Type:** Expression Plasmids  
**Product Name:** ACADM (NM\_001286042) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ACADM  
**Synonyms:** ACAD1; MCAD; MCADH  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC335781 representing NM\_001286042.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCAGGAGTTCACCGAACAGCAGAAAAGATTTCAAGCTACTGCTCGTAAATTTGCCAGAGAGGAA
ATCATCCAGTGGCTGCAGAATATGATAAACTGGTGAATATCCAGTCCCCTAATTAGAAGAGCCTGG
GAACCTGGTTAATGAACACACACATTCCAGAGAACTGTGGAGGCTTGGACTTGGAACTTTTGATGCT
TGTTAATTAGTGAAGAATTGGCTTATGGATGTACAGGGGTTGACTGCTATTGAAGGAAATCTTTG
GGCAAATGCCTATTATTATTGCTGAAATGATCAACAAAAGAAGAATTTGGGAGAATGACTGAG
GAGCCATTGATGTGTGCTTATTGTAAACAGAACCTGGAGCAGGCTCTGATGTAGCTGGTATAAAGACC
AAAGCAGAAAAGAAAGGAGATGAGTATATTATAATGGTCAGAAGATGTGGATAACCAACGGAGGAAAA
GCTAATTGGTATTTTTATTGGCACGTTCTGATCCAGATCCTAAAGCTCCTGCTAATAAAGCCTTTACT
GGATTCATTGTGGAAGCAGATACCCAGGAATTCAGATTGGGAGAAAAGGAATTAACATGGGCCAGCGA
TGTTCCAGATACTAGAGGAATTGTCTTCAAGATGTGAAAGTGCCTAAAGAAAATGTTTTAATTGGTGAC
GGAGCTGGTTTCAAAGTTGCAATGGGAGCTTTTGATAAAACCAGACCTGTAGTAGCTGCTGGTGCTGT
GGATTAGCACAAGAGCTTTGGATGAAGCTACCAAGTATGCCCTGGAAAGGAAAATTTCCGAAAGCTA
CTTGATAGCAGCAGCAGCTTGGGAGGTTGATTCTGGTCGAAATACCTATTATGCTTCTATTGCAAAG
GCATTTGCTGGAGATATTGCAAATCAGTTAGCTACTGATGCTGTGCAGATACTGGAGGCAATGGATTT
AATACAGAAATCCTGTAGAAAACTAATGAGGGATGCCAAAATCTATCAGATTTATGAAGTACTTCA
CAAATTCAAAGACTTATTGTAGCCCGTGAACACATTGACAAGTACAAAAATTA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001286042

**Insert Size:** 1158 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\\_001286042.1](#)

**RefSeq Size:** 2535 bp

**RefSeq ORF:** 1158 bp

**Locus ID:** 34

**Cytogenetics:** 1p31.1

**Protein Families:** Druggable Genome

**Protein Pathways:** beta-Alanine metabolism, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway, Propanoate metabolism, Valine, leucine and isoleucine degradation

**MW:** 42.4 kDa

**Gene Summary:** This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (4) differs in the 5' UTR and lacks an exon in the 5' coding region. These difference cause translation initiation at an alternate start codon compared to variant 1. The encoded isoform (c) is shorter and has a distinct N-terminus compared to isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.