

## Product datasheet for **SC326336**

### ACAD10 (NM\_001136538) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACAD10 (NM_001136538) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACAD10
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001136538, the custom clone sequence may differ by one or more nucleotides

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ATGTGTGTCAGGAGCTGTTTCCAGTCCCCCGTCTCCAGTGGGTGTGGAGAACAGCCTTC
CTGAAACACACCCAGCGCAGGCACCAGGGTCCCACCGATGGACACACCTTGGAGGCAGC
ACCTACAGAGCGGTGATTTTCGACATGGGCGGAGTTCTCATTCTCTCCAGGGAGATC
GCTGCAGAATGGGAGGTACAGAATCGTATCCCTTCTGAACTATATTAAGGCCTTGATG
GAAGGTGGTGAATGGGCCCTGGATGAGATTTATGAGAGCAGAAATAACAGCAGAGGGT
TTTTTACGAGAATTTGGGAGACTTTGCTCTGAAATGTTAAAGACCTCCGTGCCTGTGGAC
TCATTTTCTCTCTGTTGACCAGTGAGCGAGTGGCAAAGCAGTCCCAGTGATGACTGAG
GCCATAACTCAAATTCGGGCAAAAAGGTCTTCAGACTGCAGTCTTGAGCAATAATTTTAT
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TCCTGCATGGAAGGGATCTGTAAGCCAGACCCTAGGATCTACAAGCTGTGCTTGGAGCAG
CTCGGCCCTGCAGCCCTCTGAGTCCATCTTTCTTGATGACCTTGGAAACAAATCTAAAGAA
GCTGCCAGACTTGGTATTCACACCATTAAAGAGACAGGGTTTTGCCGTGTTGCCAAGCTG
GTGTGCAACTCCTGGGCTCAAGCGATCTACCCACCTTACCCTCCCAAAGTGGTGAGATTA
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CATCTTCCCGTCAAGCAGAGGACCACAGTGGTGCACGGGACTTCAAGGCTCGACAACCTG
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CCCGTGTGAGAGGTATTAATGACTGTGACTTGACACAGCTGGGAATCCCTGCTGCAGAG
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TATATGGCTTTTTCTTTTTCCGTGTGGCTGCAATCCTACAGGGAGTCTACAAGCGATCA
CTCACAGGGCAAGCAAGCTCCACATATGCGGAACAAACTGGAAGCTGACCGAATTTGTG

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TCTAACCTGGCGTGGGATTTTCGCAGTCAAAGAAGGGTTCCGGGTTTTCAAAGAGATGCC
TTCACAAATCCGTTAACAAGGTCTACCACACGTGGGCCAGGCCCCAGTCCCAGTGGTGC
CCCACAGGCAGCAGGAGTTATAGCTCCGTTCCAGAAGCTTCCCCAGCTCATACTCAAGG
GGAGGTCTGGTTATCTCTCCAGAGAGCCTCTCCACCTGTCAGAGAGCTGTATCACC GG
CTGAAGCACTTTCATGGAGCAACGTGTGTACCCTGCAGAGCCAGAGCTGCAGAGTACCAG
GCCTCAGCAGCCAGGTGGAGCCCTCCCCACTGATCGAAGACCTCAAGGAGAAAAGCCAAA
GCTGAAGGACTTTGGAACCTTTTCTACCCTTAGAGGCTGATCCCGAGAAAAAATACGGA
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GCCCCCGAGGTATGTAAGTCTGCTGCGCCTGACACGGGCAACATGGAGCTGCTGGTGAGG
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AGACACCGGCAGCAGTCTGTGCTCTTGGTCCCATGGATACCCAGGGATAAAAAATCATC
CGCCCTCTGACGGTGTATGGACTGGAAGATGCACCAGGTGGCCATGGTGAAGTCCGATTT
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GAGAGGGCCCTGGCACTCATGAAGGCCCGGTGAAGTCCCCTGGCTTTTGGGAAGCCC
CTGGTGGAGCAGGGCACAGTGTGGCGGACATCGCGCAGTCCGCGTGGAGATTGAGCAG
GCACGGCTGTGGTGTGAGAGCTGCCACCTCATGGACTGGCAGGAAACAAGGCTGCA
GCCTTGGATATAGCCATGATTAATAATGGTCGCCCCGTCCATGGCTCCCGAGTGATTGAT
CGTGCGATTACAGCCTTTGGAGCAGCAGGCCTGAGCAGCGACTACCCACTGGCTCAGTTC
TTCACCTGGGCCCGAGCCCTGCGCTTTGCCGACGGCCCTGACGAGGTGCACCGGGCCACG
GTGGCCAAGCTAGAGCTGAAGCACCGCATT
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001136538
- 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\\_001136538.1](#), [NP\\_001130010.1](#)
- RefSeq Size:** 4124 bp

RefSeq ORF: 3273 bp

Locus ID: 80724

UniProt ID: [Q6JQN1](#)

Cytogenetics: 12q24.12

Protein Families: Druggable Genome

**Gene Summary:** This gene encodes a member of the acyl-CoA dehydrogenase family of enzymes (ACADs), which participate in the beta-oxidation of fatty acids in mitochondria. The encoded enzyme contains a hydrolase domain at the N-terminal portion, a serine/threonine protein kinase catalytic domain in the central region, and a conserved ACAD domain at the C-terminus. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Nov 2008]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).