

## Product datasheet for **SC332939**

### ACADVL (NM\_001270448) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ACADVL (NM\_001270448) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ACADVL  
**Synonyms:** ACAD6; LCACD; VLCAD  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332939 representing NM\_001270448.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCCGTCCGTGCTCAACGAAGAGCAGACA
CAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGAAGTGAACGATCCCGCCAAGAAT
GACGCTCTGGAGATGGTGGAGGAGACCCTTGGCAGGGCCTCAAGGAGCTGGGGGCTTTGGTCTGCAA
GTGCCAGTGAGCTGGTGGTGTGGGCTTTGCAACACCCAGTACGCCGTTTGGTGGAGATCGTGGGC
ATGCATGACCTTGGCGTGGCATTACCCTGGGGGCCATCAGAGCATCGGTTTCAAAGGCATCCTGCTC
TTTGGCACAAGGCCAGAAAAGAAAAATACCTCCCAAGCTGGCATCTGGGGAGACTGTGGCCGCTTTC
TGTCTAACCGAGCCCTCAAGCGGTCAGATGCAGCCTCCATCCGAACCTCTGCTGTGCCAGCCCTGT
GGAAAATACTATACCCTCAATGGAAGCAAGCTTTGGATCAGTAATGGGGGCTAGCAGACATCTTACG
GTCTTTGCCAAGACACCGTTACAGATCCAGCCACAGGAGCCGTGAAGGAGAAGATCACAGCTTTTGTG
GTGGAGAGGGGCTTCGGGGGCAATACCCATGGGCCCTGAGAAGAAGATGGGCATCAAGGCTTCAAAC
ACAGCAGAGGTGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGTGCTGGGTGAGGTTGGGAGTGGC
TTCAAGGTTGCCATGCACATCCTCAACAATGGAAGGTTTGGCATGGCTGCCGCCCTGGCAGGTACCATG
AGAGGCATCATTGCTAAGGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAAAATTCACAAC
TTTGGGCTGATCCAGGAGAAGCTGGCAGGATGGTTATGCTGCAGTATGTAAGTCCATGGCTTAC
ATGGTGAGTGCTAACATGGACCAGGAGCCACGGACTTCCAGATAGAGGCCGCCATCAGCAAAATCTTT
GGCTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCAAATCATGGGGGTATGGGCTTCATGAAG
GAACCTGGAGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATCTTTGAGGGGACAAATGACATT
CTTCGGCTGTTTGTGGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAGTGT
CTAAAGAATCCCTTTGGGAATGCTGGCCTCCTGCTAGGAGAGGCAGGCAAAACAGCTGAGGCGGGGCA
GGGCTGGCAGCGCCTGAGTCTCAGCGGACTTGTCCACCCGAGTTGAGTCGGAGTGGCGAGCTGGCA
GTACGGGCTCTGGAGCAGTTTCCACTGTGGTGGAGGCAAGCTGATAAAACACAAGAAGGGGATTGTC
AATGAACAGTTTCTGCTGCAGCGCTGGCAGACGGGGCCATCGACCTCTATGCCATGGTGGTGGTCTC
TCGAGGGCCTCAAGATCCCTGAGTGAGGGCCACCCACGGCCAGCATGAGAAAAATGCTCTGTGACACC
TGGTGTATCGAGGCTGCAGCTCGGATCCGAGAGGGCATGGCCGCCCTGCAGTCTGACCCCTGGCAGCAA
GAGCTCTACCGCAACTTCAAAGCATCTCCAAGCCTTGGTGGAGCGGGGTGGTGTGGTACCAGCAAC
CCACTTGGCTTGA
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**Restriction Sites:** Sgfl-Mlul



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<b>ACCN:</b>	NM_001270448
<b>Insert Size:</b>	1740 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001270448.1</a></u>
<b>RefSeq Size:</b>	2371 bp
<b>RefSeq ORF:</b>	1740 bp
<b>Locus ID:</b>	37
<b>Cytogenetics:</b>	17p13.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fatty acid metabolism, Metabolic pathways
<b>MW:</b>	62.6 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (4) has an additional segment in the 5' exon, compared to variant 1. The 5'-most supported initiation codon, as used in variant 1, is associated with a weak Kozak sequence and a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the downstream AUG, and result in an isoform (4), which is shorter at the N-terminus, compared to isoform 1.</p>