

Product datasheet for **SC126350**

ACADVL (BC012912) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADVL (BC012912) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACADVL
Synonyms:	ACAD6; acyl-Coenzyme A dehydrogenase, very long chain; LCACD; VLCAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC012912 edited
GGCCGACAGGAGCTGGGCGTGCAGGACGCCAGAGCTGGGTGAGAGCTCGAGCCAGCGGCGC
CCGGAGAGATTCCGAGATGCAGGCGGCTCGGATGGCCGCGAGCTTGGGGCGGCAGCTGCT
GAGGCTCGGGGGCGGAAGCTCGCGGCTCACGGCGCTCCTGGGGCAGCCCCGGCCCCGGCC
TGCCCCGGCGCCCTATGCCGGGGTGCCTCAGCTGGCTCTGGACAAGTCAGATTCCCA
CCCCTCTGACGCTCTGACCAGAAAAAACCGGCCAAGGCGGAATCTAAGTCTTTGTCTGT
GGGAATGTTCAAAGGCCAGCTCACACAGATCAGGTGTTCCCATACCCGTCCTGCTCAA
CGAAGAGCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGA
AGTGAACGATCCCGCAAGAATGACGCTCTGGAGATGGTGGAGGAGACCACTTGGCAGGG
CCTCAAGGAGCTGGGGCCTTTGGTCTGCAAGTCCCAGTGGAGTGGTGGTGTGGGCT
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TCTAACCGAGCCCTCAAGCGGGTCAAGTGCAGCCTCCATCCGAACCTCTGCTGTGCCAG
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CATCTCAACAATGGAAGTTTGGCATGGCTGCGGCCCTGGCAGTACCATGAGAGGCAT
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CGCCATCAGCAAAATCTTTGGCTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCCA
AATCATGGGGGTATGGGCTTCAATGAAGAACCTGGAGTAGAGCGTGTGCTCCGAGATCT
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TGGGAATGCTGGCCTCCTGCTAGGAGAGGCAGGCAACAGCTGAGGCGGCGGGCAGGGCT
GGGCAGCGCCTGAGTCTCAGCGGACTTGTCCACCCGGAGTTGAGTCGGAGTGGCGAGCT
GGCAGTACGGCTCTGGAGCAGTTTGCCTGTGGTGGAGGCCAAGCTGATAAAACACAA
GAAGGGGATTGCAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGCCATCGACCT
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GGCCAGCATGAGAAAATGCTCTGTGACACCTGGTGTATCGAGGCTGCAGCTCGGATCCG
AGAGGGCATGGCCGCCCTGCAGTCTGACCCCTGGCAGCAAGAGCTCTACCGCAACTTCAA
AAGCATCTCCAAGGCCTTGGTGGAGCGGGTGGTGTGGTCAACAGCAACCCACTTGGCTT
CTGAATACTCCCGGCCAGGGCCTGTCCCAGTTATGTGCCCTCCCTCAAGCCAAAGCCGAA
GCCCTTTCTTAAGGCCTGGTTTGTCCCGAAGGGCCCTAGTGTCCCAGCACTGTGCC
TGCTCTCAAGAGCACTTACTGCCTCGCAATAATAAAAAATTTCTAGCCAGTCAAAACAAA
AAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC012912 unedited TTCTTGATTTGTAATACGACTTCTACTATAGGGCGCGCCGCGTAATTCCTGGGTATATCG TACGACCCACGTCGTCCGGGCGCCAGGACGTGGGCGTGCAGGACGCCAGAGCTGGGTCAG AGCTCGAGCCAGCGGCGCCCGGAGAGATTCCGAGATGCAGGCGGCTCGGATGGCCGCGAG CTTGGGGCGGCAGCTGCTGAGGCTCGGGGGCGGAAGCTCGCGGCTCACGGCGCTCCTGGG GCAGCCCCGGCCCGCCCTGCCCGGCGCCCTATGCCGGGGGTGCCGCTCAGCTGGCTCT GGACAAGTCAGATTCCCACCCCTCTGACGCTCTGACCAGGAAAAAACCGGCCAAGGCGGA ATCTAAGTCCTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCC ATACCCGTCCGTCTCAACGAAGAGCAGACACAGTTTCTTAAAGAGCTGGTGGAGCTGT GTCCCCTTTCTTCGAGGAAGTGAACGATCCCGCCAAGAATGACGCTCTGGAGATGGTGA GGAGACCCTTGGCAGGGCCTCAAGGAGCTGGGGCCTTTGGTCTGCAAGTGCCAGTGA GCTGGGTGGTGTGGCCTTTGCAACACCCAGTACGCCGTTTGGTGGAGATCGTGGGCAT GCATGACCTTGGCGTGGCATTACCCTGGGGGCCATCAGAGCATCGGTTTCAAAGGCAT CCTGCTCTTTGGACANAGCCCAGAAAAGAAAATACCTCCAAGCTGGCATCTGGGGAGAC TGTGGCCGCTTTCTGTCTAACCGAGCCTCAAGCGGGTCAGATGCCGCCTCATTCCGAAC TCTGGTGGGCCAGCCCCGTTGGGAAAAACCTATACCCTCATGGGAAGCAGCCTTGATCA GTATGGGGGGCCTAACAGAAATCTCCNGTCCTTGCCAAGAAAC
Restriction Sites:	Please inquire
ACCN:	BC012912
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:	<ol style="list-style-type: none"> 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:	BC012912.1 , AAH12912.1
RefSeq Size:	2231 bp
Locus ID:	37
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid metabolism, Metabolic pathways

Gene Summary:

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]