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Product datasheet for SC332938

ACADVL (NM_001270447) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADVL (NM_001270447) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACADVL
Synonyms:	ACAD6; LCACD; VLCAD
Vector:	pCMV6-Entry (PS100001)

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Fully Sequenced ORF:

>SC332938 representing NM_001270447.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTTGGGGGGCCTGGCCGCGGCGGCGGGAACCCGGATAATGGGAAAGGAGATAGAAGCAGAAGCACAG
AGGCCCCTGAGGCAAACATGGAGACCTGGCCAGCCACCAGCGATGACAGCAAAGACGATGAGCTCGCGG
CTCACGGCGCTCCTGGGGCAGCCCCGGCCCGGCCCTGCCCGGCGGCCCTATGCCGGGGGTGCCGCTCAG
CTGGCTCTGGACAAGTCAGATTCCCACCCCTCTGACGCTCTGACCAGGAAAAAACCGGCCAAGGCGGAA
TCTAAGTCCTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCCGTCC
GTGCTCAACGAAGAGCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGAA
GTGAACGATCCCGCCAAGAATGACGCTCTGGAGATGGTGGAGGAGACCACTTGGCAGGGCCTCAAGGAG
CTGGGGGCCTTTGGTCTGCAAGTGCCCAGTGAGCTGGGTGGTGTGGGCCTTTGCAACACCCAGTACGCC
CGTTTGGTGGAGATCGTGGGCATGCATGACCTTGGCGTGGGCATTACCCTGGGGGCCCATCAGAGCATC
GGTTTCAAAGGCATCCTGCTCTTTGGCACAAAGGCCCAGAAAGAAAAATACCTCCCCAAGCTGGCATCT
GGGGAGACTGTGGCCGCTTTCTGTCTAACCGAGCCCTCAAGCGGGTCAGATGCAGCCTCCATCCGAACC
TCTGCTGTGCCCAGCCCCTGTGGAAAATACTATACCCTCAATGGAAGCAAGCTTTGGATCAGTAATGGG
GGCCTAGCAGACATCTTCACGGTCTTTGCCAAGACACCAGTTACAGATCCAGCCACAGGAGCCGTGAAG
GAGAAGATCACAGCTTTTGTGGTGGAGAGGGGCTTCGGGGGCATTACCCATGGGCCCCCTGAGAAGAAG
ATGGGCATCAAGGCTTCAAACACAGCAGAGGTGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGTG
CTGGGTGAGGTTGGGAGTGGCTTCAAGGTTGCCATGCACATCCTCAACAATGGAAGGTTTGGCATGGCT
GCGGCCCTGGCAGGTACCATGAGAGGCATCATTGCTAAGGCGGTAGATCATGCCACTAATCGTACCCAG
TTTGGGGAGAAAATTCACAACTTTGGGCTGATCCAGGAGAAGCTGGCACGGATGGTTATGCTGCAGTAT
GTAACTGAGTCCATGGCTTACATGGTGAGTGCTAACATGGACCAGGGAGCCACGGACTTCCAGATAGAG
GCCGCCATCAGCAAAATCTTTGGCTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCCAAATCATG
GGGGGTATGGGCTTCATGAAGGAACCTGGAGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATC
TTTGAGGGGACAAATGACATTCTTCGGCTGTTTGTGGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAG
CTCTCTGGGCTTGGCAGTGCTCTAAAGAATCCCTTTGGGAATGCTGGCCTCCTGCTAGGAGAGGCAGGC
AAACAGCTGAGGCGGCGGGCAGGGCTGGGCAGCGGCCTGAGTCTCAGCGGACTTGTCCACCCGGAGTTG
AGTCGGAGTGGCGAGCTGGCAGTACGGGCTCTGGAGCAGTTTGCCACTGTGGTGGAGGCCAAGCTGATA
AAACACAAGAAGGGGATTGTCAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGCCATCGACCTC
TATGCCATGGTGGTGGTTCTCTCGAGGGCCTCAAGATCCCTGAGTGAGGGCCACCCCACGGCCCAGCAT
GAGAAAATGCTCTGTGACACCTGGTGTATCGAGGCTGCAGCTCGGATCCGAGAGGGCATGGCCGCCCTG
CAGTCTGACCCCTGGCAGCAAGAGCTCTACCGCAACTTCAAAAGCATCTCCAAGGCCTTGGTGGAGCGG
GGTGGTGTGGTCACCAGCAACCCACTTGGCTTCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001270447

Insert Size: 2037 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_001270447.1
RefSeq Size:	2232 bp
RefSeq ORF:	2037 bp
Locus ID:	37
UniProt ID:	P49748
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid metabolism, Metabolic pathways
MW:	72.9 kDa
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] Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (3) is longer and has a distinct N-terminus, compared to isoform 1. 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.