

## Product datasheet for **RC205849**

### ACADVL (NM\_001033859) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACADVL (NM_001033859) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACADVL
Synonyms:	ACAD6; LCACD; VLCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC205849 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCAGGCGGCTCGGATGGCCGCGAGCTTGGGGCGGCAGCTGCTGAGGCTCGGGGCGGAAGCTCGCGGC  
TCACGGCGCTCCTGGGGCAGCCCGGCCGCCCTGCCCGCGGCCCTATGCCGGGGGTGCCGCTCAGGA  
ATCTAAGTCCTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCGTCC  
GTGCTCAACGAAGAGCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCGTTTCTTCGAGGAAG  
TGAACGATCCCGCAAGAATGACGCTCTGGAGATGGTGGAGGAGACCACTTGGCAGGGCCTCAAGGAGCT  
GGGGGCCCTTGGTCTGCAAGTGCCAGTGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
TTGGTGGAGATCGTGGGCATGCATGACCTTGGCGTGGGCATTACCCTGGGGGCCATCAGAGCATCGTT  
TCAAAGGCATCCTGCTCTTTGGCACAAGGCCAGAAAAGAAAAACCTCCCAAGCTGGCATCTGGGA  
GACTGTGGCCGCTTCTGTCTAACCGAGCCCTCAAGCGGGTCCAGATGCAGCCTCCATCCGAACCTCTGCT  
GTGCCAGCCCTGTGGAATACTATACCCTCAATGGAAGCAAGCTTTGGATCAGTAATGGGGGCTAG  
CAGACATCTTACGGTCTTTGCCAAGACACCAGTTACAGATCCAGCCACAGGAGCCGTGAAGGAGAAGAT  
CACAGCTTTTGGTGGAGAGGGGCTTCGGGGGCATTACCATGGGCCCTGAGAAGAAGATGGGCATC  
AAGGCTTCAAACACAGCAGAGGTGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGTGCTGGGTGAGG  
TTGGGAGTGGCTCAAGGTTGCCATGCACATCCTCAACAATGGAAGGTTTGGCATGGCTGCGGCCCTGGC  
AGGTACCATGAGAGGCATCATTGCTAAGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAAA  
ATTCACAACCTTGGGCTGATCCAGGAGAAGCTGGCAGCGATGTTATGCTGCAGTATGTAAGTGAAGTCCA  
TGGCTTACATGGTGGTGAATGACATGGACCAGGGAGCCACGGACTTCCAGATAGAGGCCGCCATCAGCAA  
AATCTTTGGCTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCCAAATCATGGGGGGTATGGGCTTC  
ATGAAGGAACCTGGAGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATCTTTGAGGGGACAAATG  
ACATTCTCGGCTGTTTGGTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAG  
TGCTCTAAGAATCCCTTTGGGAATGCTGGCCTCCTGCTAGGAGAGGCAGGCAAACAGCTGAGGCGCGG  
GCAGGGCTGGGCAGCGGCTGAGTCTCAGCGGACTTGTCCACCCGGAGTTGAGTCGGAGTGGCGAGCTGG  
CAGTACGGGCTCTGGAGCAGTTTCCACTGTGGTGGAGGCAAGCTGATAAAACACAAGAAGGGATTGT  
CAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGCCATCGACCTCTATGCCATGGTGGTGGTCTC  
TCGAGGGCCTCAAGATCCCTGAGTGGGGCCACCCACGCGCCAGCATGAGAAAATGCTCTGTGACACCT  
GGTGTATCGAGGCTGACGCTCGGATCCGAGAGGCATGGCCGCCCTGCAGTCTGACCCCTGGCAGCAAGA  
GCTCTACCGAACCTCAAAGCATCTCCAAGGCCTTGGTGGAGCGGGTGGTGGTGGTGGTGGTGGTGGTGGT  
CTTGGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



**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\\_001033859.2](#), [NP\\_001029031.1](#)

**RefSeq Size:** 2230 bp

**RefSeq ORF:** 1902 bp

**Locus ID:** 37

**UniProt ID:** [P49748](#)

**Cytogenetics:** 17p13.1

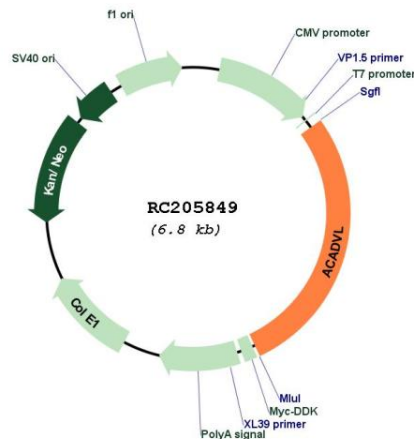
**Protein Families:** Druggable Genome

**Protein Pathways:** Fatty acid metabolism, Metabolic pathways

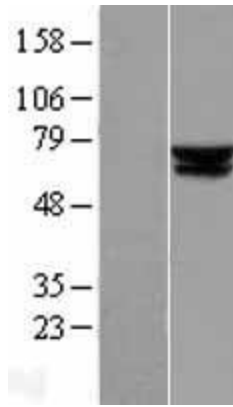
**MW:** 68.1 kDa

**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]

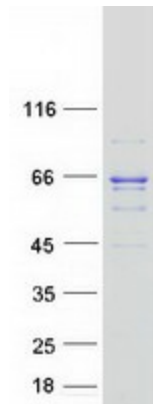
### Product images:



Circular map for RC205849



Western blot validation of overexpression lysate (Cat# [LY422424]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205849 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACADVL protein (Cat# [TP305849]). The protein was produced from HEK293T cells transfected with ACADVL cDNA clone (Cat# RC205849) using MegaTran 2.0 (Cat# [TT210002]).