

Product datasheet for **RC234479**

ACADVL (NM_001270448) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADVL (NM_001270448) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC234479 representing NM_001270448
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTCCCATACCCGTCCTGCTCAACGAAGAGCAGACAC
 AGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTCGAGGAAGTGAACGATCCCGCCAAGAATGA
 CGCTCTGGAGATGGTGGAGGAGACCCTTGGCAGGGCCTCAAGGAGCTGGGGCCTTTGGTCTGCAAGTG
 CCCAGTGAGCTGGGTGGTGTGGGCCTTTGCAACACCCAGTACGCCGTTTGGTGGAGATCGTGGGCATGC
 ATGACCTTGGCGTGGGCATTACCTGGGGGCCATCAGAGCATCGGTTTCAAAGGCATCTGCTCTTTGG
 CACAAAGGCCAGAAAGAAAAATACCTCCCAAGCTGGCATCTGGGGAGACTGTGGCCGCTTTCTGTCTA
 ACCGAGCCCTCAAGCGGGTCAAGTGCAGCCTCCATCCGAACCTCTGCTGTGCCAGCCCTGTGGAAAAAT
 ACTATACCCTCAATGGAAGCAAGCTTTGGATCAGTAATGGGGCCTAGCAGACATCTTCACGGTCTTTGC
 CAAGACACCAGTTACAGATCCAGCCACAGGAGCCGTGAAGGAGAAGATCACAGCTTTTGGTGGAGAGG
 GGCTTCGGGGGCATTACCATGGGCCCCCTGAGAAGAAGATGGGCATCAAGGCTTCAAACACAGCAGAGG
 TGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGTGCTGGGTGAGGTTGGGAGTGGCTTCAAGTTGC
 CATGCACATCCTCAACAATGGAAGGTTTGGCATGGCTGCGGCCCTGGCAGGTACCATGAGAGGCATCATT
 GCTAAGGCGGTAGATCATGCCACTAATCGTACCAGTTTGGGGAGAAAAATCACAACTTTGGGCTGATCC
 AGGAGAAGCTGGCACGGATGTTATGCTGCAGTATGTAAGTGAAGTCCATGGCTTACATGGTGAAGTGTAA
 CATGGACCAGGGAGCCACGGACTTCCAGATAGAGGCCCCATCAGCAAAATCTTTGGCTCGGAGGCAGCC
 TGAAGGTGACAGATGAATGCATCCAAATCATGGGGGTATGGGCTTATGAAGGAACCTGGAGTAGAGC
 GTGTGCTCCGAGATCTTCGCATCTTCGGATCTTTGAGGGGACAAATGACATTCTTCGGCTGTTTGGC
 TCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAGTGCCTCTAAAGAATCCCTTTGGG
 AATGCTGGCCTCTGCTAGGAGAGGCAGGCAAACAGCTGAGGCGCGGGCAGGGCTGGGCAGCGGCCTGA
 GTCTCAGCGGACTTGTCCACCCGGAGTTGAGTCGGAGTGGCGAGCTGGCAGTACGGGCTCTGGAGCAGTT
 TGCCACTGTGGTGGAGGCCAAGCTGATAAAACACAAGAAGGGATTGTCAATGAACAGTTTCTGCTGCAG
 CGGCTGGCAGACGGGCCATCGACCTCTATGCCATGGTGGTGGTCTCTCGAGGGCCTCAAGATCCCTGA
 GTGAGGGCCACCCACGGCCAGCATGAGAAAAATGCTCTGTGACACCTGGTGTATCGAGGCTGCAGCTCG
 GATCCGAGAGGGCATGGCCGCCCTGCAGTCTGACCCCTGGCAGCAAGAGCTCTACCGCAACTTCAAAGC
 ATCTCAAAGCCCTGGTGGAGCGGGTGGTGTGGTACCAGCAACCCACTGGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234479 representing NM_001270448
 Red=Cloning site Green=Tags(s)

MFKQQLTTDQVFPYPSVLNNEEQTQFLKELVEPVSRRFFEEVNDPAKNDALEMVEETTWQGLKELGAFGLQV
 PSELGGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFKGILLFGTKAQKEKYLPKLASGETVAAFCL
 TEPSSGSDAASIRTSAPVSPCGKYTYLNGSKLWISNGGLADIFTVF AKTPVTD PATGAVKEKITAFVVER
 GFGGITHGPPEKMGIKASNTAEVFFDGVVPSENVLGEVSGFKVAMHILNNGRFGMAAALAGTMRGII
 AKAVDHATNRTQFGEKIHNFLIQEKLARMVMLQYVTESMAYMVSANMDQGATDFQIEAAISKIFGSEAA
 WKVTDECIQIMGGMGFMKEPVERVLRDLRIFRIFEGTNDILRLFVALQGCMKDKELSGLSALKNPF
 NAGLLLEAGKQLRRRAGLGSGLSLVHPELRSRSGELAVRALEQFATVVEAKLIKHKKIVNEQFLQ
 RLADGAIDLAMVVLSRASRSLSEGHPTAQHEKMLCDTWICIEAAARIREGMAALQSDPWQQLYRNFKS
 ISKALVERGGVTSNPLGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001270448

ORF Size: 1737 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001270448.1](#), [NP_001257377.1](#)

RefSeq Size: 2371 bp

RefSeq ORF: 1740 bp

Locus ID: 37

Cytogenetics: 17p13.1

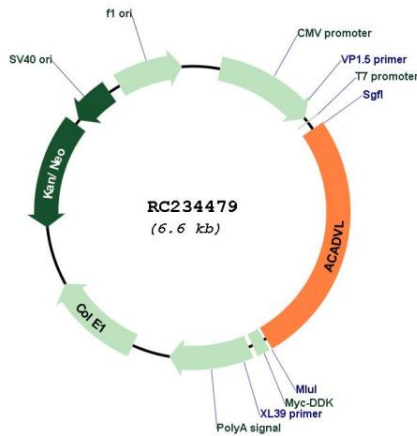
Protein Families: Druggable Genome

Protein Pathways: Fatty acid metabolism, Metabolic pathways

MW: 63 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 RC234479