

Product datasheet for **RC234701**

ACADVL (NM_001270447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADVL (NM_001270447) 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:

>RC234701 representing NM_001270447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGGGGCTGGCCGGCGCGGGAACCCGGATAATGGGAAAGGAGATAGAAGCAGAAGCACAGA
 GGCCCTGAGGCAAACATGGAGACTGGCCAGCCACCAGCGATGACAGCAAAGACGATGAGCTCGCGGCT
 CACGGCGCTCCTGGGGCAGCCCCGGCCCGCCCTGCCCGCGGCCCTATGCCGGGGTGCCTCAGCTG
 GCTCTGGACAAGTCAGATTCCCACCCCTCTGACGCTCTGACCAGGAAAAACCGCCAAGGCGGAATCTA
 AGTCTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCCGTCCTGT
 CAACGAAGAGCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGAAGTGAAC
 GATCCCGCAAGAATGACGCTCTGGAGATGGTGGAGGAGACCCTTGGCAGGGCCTCAAGGAGCTGGGG
 CCTTTGGTCTGCAAGTGGCCAGTGGTGGTGGTGGCCCTTGAACACCCAGTACGCCCGTTTGGT
 GGAGATCGTGGGCATGCATGACCTTGGCGTGGGCATTACCCTGGGGGCCATCAGAGCATCGTTTTCAA
 GGATCTGCTCTTTGGCACAAGGCCAGAAAAGAAAAATACCTCCCAAGCTGGATCTGGGGAGACTG
 TGGCCGCTTTCTGTCTAACCGAGCCCTCAAGCGGGTCCAGATGCAGCCTCCATCCGAACCTCTGCTGTGCC
 CAGCCCTGTGGAAAATACTATACCCTCAATGGAAGCAAGCTTTGGATCAGTAATGGGGGCTAGCAGAC
 ATCTTCACGGTCTTTGCCAAGACACCAGTTACAGATCCAGCCACAGGAGCCGTAAGGAGAAGATCACAG
 CTTTTGTGGTGGAGAGGGGCTTCGGGGCATTACCCATGGGCCCCCTGAGAAGAAGATGGGCATCAAGGC
 TTCAAACACAGCAGAGGTGTTCTTTGATGGAGTACGGTGCCATCGGAGAACGTGCTGGGTGAGGTTGGG
 AGTGGCTCAAGGTTGCCATGCATCCTCAACAATGGAAGTTTGGCATGGCTGCGGCCCTGGCAGGTA
 CCATGAGAGGCATCATTGCTAAGGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAAAATTCA
 CAACTTTGGGCTGATCCAGGAGAAGCTGGCACGGATGGTTATGCTGCAGTATGTAAGTGAATGCTGGCT
 TACATGGTGAAGTCTAACATGGACCAGGAGCCACGGACTTCCAGATAGAGGCCGCCATCAGCAAAATCT
 TTGGCTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCCAAATCATGGGGGGTATGGCTTCATGAA
 GGAACCTGGAGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCGGATCTTTGAGGGGACAAATGACATT
 CTTCCGGCTGTTTGGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAGTGCTC
 TAAAGAATCCCTTTGGGAATGCTGGCCTCCTGCTAGGAGAGGCAGGCAACAGCTGAGGCCGGCGGCAGG
 GCTGGGCAGCGGCTGAGTCTCAGCGGACTTGTCCACCCGGAGTTGAGTCCGAGTGGCGAGCTGGCAGTA
 CGGGCTCTGGAGCAGTTTGCCACTGTGGTGGAGGCCAAGCTGATAAAACACAAGAAGGGGATTGTCAATG
 AACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGCCATCGACCTCTATGCCATGGTGGTGGTCTCTCGAG
 GGCTCAAGATCCCTGAGTGAAGGCCACCCACGGCCAGCATGAGAAAATGCTCTGTGACACCTGGTGT
 ATCGAGGCTGCAGCTCGGATCCGAGAGGGCATGGCCGCCCTGCAGTCTGACCCCTGGCAGCAAGAGCTCT
 ACCGCAACTTCAAAGCATCTCCAAGGCCTTGGTGGAGCGGGTGGTGTGGTACCAGCAACCCACTTGG
 CTTC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234701 representing NM_001270447
Red=Cloning site Green=Tags(s)

```

MLGGLAAAAGTRIMGKEIEAEAQRPLRQTWRPGQPPAMTAKTMSSRLTALLGQPRPGPARRPYAGGAAQL
ALDKSDSHPSDALTRKKPAKAESKSFVGMFKGQLTTDQVFPYPSVLNEEQTFLEKELVEPVSRFFEEVN
DPAKNDALMVEETTQGLKELGAFGLQVPSSELGGVLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFK
GILLFGTKAQKEKYLKPLASGETVAAFCLTEPSSGSDAASIRTSAVPSPCGKYITLNGSKLWISNGGLAD
IFTVFAKTPVTDPATGAVKEKITAFAVVERGGITHGPPPEKMGIKASNTAEVFFDGVVRVPSENVLGEVG
SGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIHNFLIQEKLARMVMLQYVTE SMA
YMSANMDQGATDFQIEAAISKIFGSEAAWKVTDECIQIMGGMGMKEPVERVLRDLRIFRIFEGTNDI
LRLFVALQGCMKGLKELSGLGSALKPNPFGNAGLLLGEAGQLRRRAGLGSGLSLSGLVHPELRSRSELAV
RALEQFATVVEAKLIKHKKGIVNEQFLQLADGAIDLAMVVVLSRASRSLSEGHPAQHEKMLCDTWC
IEAAARIREGMAALQSDPWQQLYRNFKISKALVERGGVVTSNPLGF
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001270447

ORF Size: 2034 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_001270447.1](#), [NP_001257376.1](#)

RefSeq Size: 2232 bp

RefSeq ORF: 2037 bp

Locus ID: 37

UniProt ID: [P49748](#)

Cytogenetics: 17p13.1

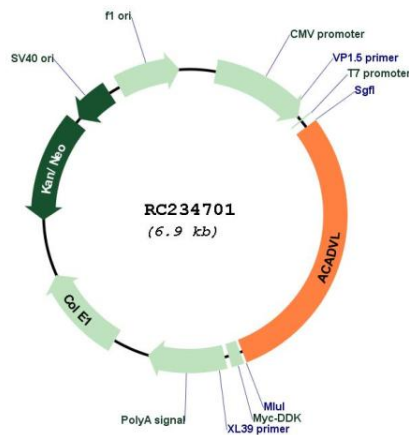
Protein Families: Druggable Genome

Protein Pathways: Fatty acid metabolism, Metabolic pathways

MW: 73.4 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 RC234701