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Product datasheet for MC204226

Acadvl (NM_017366) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acadvl (NM_017366) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acadvl
Synonyms:	VL; vlcad
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC026559
CAGGGCCCAGACACACAACCTTTGGGCAGGCGAGACGCGAAGAGAAGAAGTCAGTGGTCAAGACTTCGGC
GGCGGCTTTGGAGATGCAGTCGGCTCGGATGACCCCGAGTGTGGGGCGACAGCTGCTGCGGCTGGGGGCC
CGAAGCTCGCGATCTACTACTGTGCTTCAGGGACAACCCCGGCCTATCTCTGCCCAGCGACTTTATGCCA
GGGAGGCCACTCAGGCAGTTCTGGACAAGCCAGAAACCCTCTCCTCTGATGCTTCCACCAGAGAAAAACC
AGCCAGGGCAGAATCGAAGTCCTTTGCTGTGGGGATGTTCAAAGGCCAGCTTACCATTGATCAGGTGTTC
CCATACCCATCTGTGCTCAGTGAAGAACAGGCACAATTTCTCAAAGAGCTGGTGGGACCAGTGGCCCGGT
TCTTTGAGGAAGTGAATGACCCTGCCAAGAACGACGCCTTGGAGAAGGTGGAGGACGACACTTTGCAGGG
ACTCAAGGAACTGGGGGCATTTGGCCTGCAAGTACCCAGCGAGCTGGGTGGTTTGGGCCTCTCTAATACC
CAGTATGCTCGCTTGGCAGAGATTGTGGGCATGCATGACCTTGGTGTTAGCGTTACCCTGGGAGCTCATC
AGAGCATCGGTTTCAAAGGCATCTTGCTCTATGGCACAAAGGCCCAGAGAGAAAAATACCTTCCCAGAGT
GGCATCTGGGCAGGCTTTGGCTGCTTTCTGCCTAACAGAGCCCTCGAGTGGATCCGATGTAGCCTCCATC
CGAAGCTCAGCCATACCCAGCCCCTGTGGAAAATATTACACTCTCAATGGGAGCAAGATCTGGATCAGTA
ATGGGGGCCTGGCCGACATTTTCACTGTCTTTGCCAAGACGCCAATTAAAGATGCAGCCACGGGGGCCGT
GAAAGAGAAGATCACAGCTTTTGTAGTGGAAAGGAGCTTCGGAGGGGTTACCCATGGGCTCCCTGAAAAG
AAGATGGGCATCAAAGCATCTAACACGTCAGAGGTGTACTTTGATGGAGTGAAGGTGCCATCAGAGAATG
TGCTAGGAGAGGTGGGAGATGGCTTCAAGGTTGCTGTCAACATCCTCAACAACGGAAGATTTGGGATGGC
TGCAACCCTCGCAGGCACCATGAAATCCCTCATTGCCAAGGCGGTTGATCATGCTACTAATCGTACCCAG
TTTGGGGACAAAATTCACAACTTTGGGGTGATCCAGGAAAAGCTGGCTCGGATGGCTATTCTGCAGTATG
TGACTGAGTCCATGGCTTACATGCTGAGTGCCAACATGGACCAGGGATTCAAAGACTTCCAGATAGAAGC
CGCCATCAGCAAAATCTTTTGCTCGGAGGCGGCCTGGAAAGTGGCAGATGAGTGCATCCAAATAATGGGG
GGCATGGGCTTCATGAAGGAACCAGGGGTGGAGCGTGTGCTCCGAGATATTCGAATCTTCCGGATCTTTG
AAGGGGCAAATGACATTCTTCGACTGTTTGTGGCTCTCCAAGGCTGTATGGACAAAGGAAAGGAACTCAC
TGGGCTGGGCAATGCCCTGAAGAATCCTTTTGGAAACGTTGGCCTCCTGATGGGAGAAGCAGGCAAACAG
CTGAGACGGAGGACAGGAATCGGCAGTGGTTTGAGTCTGTCAGGGATTGTCCACCCAGAGTTAAGTCGCA
GTGGTGAACTGGCAGTGCAGGCTCTGGATCAATTTGCCACCGTGGTGGAGGCCAAGCTGGTGAAACACAA
GAAAGGGATTGTCAACGAGCAGTTCCTGCTGCAGCGACTGGCGGACGGCGCCATTGACCTCTATGCCATG
GTGGTGGTTCTGTCCAGAGCCTCAAGGTCCCTGAGTGAGGGCTACCCGACGGCACAGCATGAGAAAATGC
TCTGTGATAGCTGGTGCATTGAGGCTGCAACTCGGATCCGAGAAAACATGGCCAGTCTGCAGTCCAGCCC
TCAGCATCAGGAGCTCTTCCGGAACTTCAGAAGCATCTCCAAGGCCATGGTGGAGAATGGTGGCCTGGTC
ACCGGTAACCCCCTGGGAATCTGAGACTCCCAATCAGGCCCTGGCAAGGTCATGTGCCTTCTCTGATGCC
AAAACCCTTTATGGAGGTGATGGAGTACTTATTGCCTTAACAATAAATTTTCTACCAAAAAAAAAAAAAA A

Restriction Sites: RsrII-NotI

ACCN: NM_017366

Insert Size: 1971 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).

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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:	BC026559, AAH26559
RefSeq Size:	2171 bp
RefSeq ORF:	1971 bp
Locus ID:	11370
UniProt ID:	P50544
Cytogenetics:	11 42.96 cM
Gene Summary:	This gene encodes a homodimeric mitochondrial flavoprotein and is a member of the acyl-CoA dehydrogenase family. Members of this family catalyze the first step of fatty acid beta-oxidation, forming a C2-C3 trans-double bond in a FAD-dependent reaction. As beta-oxidation cycles through its four steps, each member of the acyl-CoA dehydrogenase family works at an optimum fatty acid chain-length. This enzyme has its optimum length between C16- and C20-acylCoA and localizes to the inner mitochondrial membrane (unlike related acyl-CoA dehydrogenases). In mice, deficiency of this gene can cause ventricular arrhythmias as well as fasting and cold intolerance. [provided by RefSeq, Nov 2012]

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