

Product datasheet for SC119148

ACADL (NM_001608) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADL (NM_001608) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACADL
Synonyms:	ACAD4; LCAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119148 sequence for NM_001608 edited (data generated by NextGen Sequencing)

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ATGGCCGCACGCCTTCTCCGAGGGTCCCTACGCGTCTGGCGGCCACCGTGCGCCGCGC
CAGCTGCCCGCCGCGATGTTCTCATTCCGGAGGGGAAGAACGTCTAGAACTCCTTCT
GCTAAAAAATTAACAGATATAGGAATTCGAAGAATCTTTTCTCCAGAGCATGACATTTTC
CGGAAAAGTGTAAAGGAAGTTTTTCCAAGAAGAAGTGATTCCTCATCACTCAGAATGGGAG
AAAGCTGGAGAAGTAAGTAGGGAGTTTTGGAAAAAGCTGAAAAACAAGGACTGCTTGGT
GTCAATATTGCAGAGCATCTTGGTGAATTGGAGGGGATCTGACTCCGCAGCTATTGTC
TGGGAGGAGCAAGCTTATTCAAATTGTTCAAGCCAGGTTTTAGTATTCAATTCAGGTATT
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ATGACTGCAGGCAAATGTATTGGTGCAATAGCAATGACAGAGCCTGGAGCTGGAAGTGAC
TTACAGGGAATAAAAACAAATGCTAAAAAGGATGGAAGTGACTGGATTCTCAATGGAAGC
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CATGAAGCTCCCTCCCCTGCCCATGGTATTAGCCTTTTTCTGGTGAAAAATGGAATGAAA
GGATTTATCAAGGGACGAAAGCTACATAAAATGGGATTAAGGCCAGGATACCGCAGAA
CTATTCTTTGAAGATATACGGTTGCCAGCTAGTGCCCTACTTGGAGAAGAGAATAAAGGC
TTCTATTACATCATGAAAGAGCTTCCACAGGAAAGGCTGTTAATTGCTGATGTGGCAATT
TCAGCTAGTGAATTCATGTTTGAAGAAACCAGGAACATATGTTAAACAAAGAAAAGCTTTT
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ATATGTGTAACCCGAGCATTTGTGGACAACGTCTCCAGCTGCATGAAGCGAAACGTTTTG
GACTCCGCCACTGCTTGCATGGCGAAATATTGGGCATCTGAGTTACAAAAATAGTGTAGCT
TACGACTGTGTACAGCTCCATGGAGTTGGGGATACATGTGGGAGTACCAATTGCAAAA
GCTTATGTGGATGCCAGAGTTCAGCCAATCTATGGTGGTACAAATGAAATAATGAAGGAG
CTGATTGCAAGAGAGATTGTCTTTGACAAGTAG
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Clone variation with respect to NM_001608.3
601 a=>m



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001608 unedited TTTTCAGCATTTGTATACGATTCCTATAGGCGGCNCGCGATTTCGGCACGAGGTGGCGTGGT TGGGGCTCCGGAGGGCGCGCGAGCGCTTTTTGGGAGGACACCACAGGTGGACGCCTC AGCTGATCGTCCCTCCCGGGGACCCCTGCCCGAGTCGCCGAGTAGCCGCAGAGTCGC CTCGGTCGCCCCGCCGCCCTGTGTTTCGGACATGGCCGCACGCCTTCTCCGAGGGTCCC TACGCGTCCTGGCGGCCACCGTGCGCCGCCAGCTGCCCGCCGCGCATGTTCTCATT CCGGAGGGGAAGAACGTCTAGAAACTCCTTCTGCTAAAAAATTAACAGATATAGGAATTC GAAGAATCTTTTCTCCAGAGCATGACATTTTCCGGAAAAAGTGAAGGAAGTTTTTCCAAG AAGAAGTGATTCTCATCACTCAGAATGGGAGAAAGCTGGAGAAGTAAGTAGGGAGTGT GGGAAAAAGCTGGAAAACAAGGACTGCTTGGTGTCAATATTGCAGAGCATCTTGGTGAA TTGGAGGGGATCTGTACTCCGCAGCTATTGTCTGGGAGGAGCAGTAAGTATGGAGACTTT TAAGGTTGAGTCTGTTTTGTAACACACCACTCACCTTTCTTGAATGACCCAACAAACA AACCAACAAACAATGTTTTCTAATCTTGAAAGATGAAATTCAGTGAAATGTAAGA TATACCGCTCATGCACTTTGACATTTTTGAATGGGGATATAAGAAAATCCTTTTAAG TTGCTGAAATAGGTGCTATTTGAAAATTAAGAGATAGTTTTTTTTTTTCTGCCATGCCT ATGANTACTTTTCCCCTCTAAAAAGAATTTTGAAGACACCGCCGAGGAGAAAATTATTC CCTCAAAATTTTACAAATTTAATTTCCGGACAATAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_001608
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:	<ol style="list-style-type: none"> 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_001608.2 , NP_001599.1
RefSeq Size:	2497 bp
RefSeq ORF:	1293 bp
Locus ID:	33
UniProt ID:	P28330
Cytogenetics:	2q34
Domains:	Acyl-CoA_dh, Acyl-CoA_dh_M, Acyl-CoA_dh_N
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

Gene Summary:

The protein encoded by this gene belongs to the acyl-CoA dehydrogenase family, which is a family of mitochondrial flavoenzymes involved in fatty acid and branched chain amino-acid metabolism. This protein is one of the four enzymes that catalyze the initial step of mitochondrial beta-oxidation of straight-chain fatty acid. Defects in this gene are the cause of long-chain acyl-CoA dehydrogenase (LCAD) deficiency, leading to nonketotic hypoglycemia. [provided by RefSeq, Jul 2008]