

Product datasheet for **MC206513**

Acadm (BC013498) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acadm (BC013498) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acadm
Synonyms:	AU018656; MCAD
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC013498, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCGCGTTCCGCAGAGGCTGCAGGGTCCCTGAGAAGTGTTCATTTTGTAGTGTGCAACACAAC
ACTCGAAAGCGGCTCACAAAGCAGGAGCCCGATTAGGGTTTGTGTTTGTGTTGACGGAACAGCAGAAAGA
GTTTCAAGCAACTGCCCGCAAGTTTCCAGAGAGGAGATTATCCCGTCGCCCGGAATATGACAAAAGC
GGGGAGTACCCGTTCCCTCTCATCAAAGAGCCTGGGAACTCGGCTTGATCAACGCGCACATTCGGAAA
GTTGCGGTGGTCTGGCCTGGGAACGTTTCGATGCTTGTAAATTACCGAAGAGTTGGCGTATGGGTGAC
AGGGGTGCAAAGTCTATTGAAGCAAATCTTTGGGCAATGCCTGTGATTCTTGCTGGAATGATCAA
CAAAAAAGAAGTATTTGGGGAGGATGACGGAGCAGCCAATGATGTGTGCTTACTGTGTGACAGAGCCCT
CCGCAGGCTCTGATGTGGCGGCCATTAAGACCAAAGCAGAGAAGAAGGGTGACGAGTATGTTATCAACGG
CCAGAAGATGTGGATAACCAACGGGGAAAGGCCAACTGGTATTTCTTGTGGCGGTTCTAACCCAGAT
CCTAAAGTACCCGCTAGTAAAGCCTTTACTGGATTCAATTGTGGAAGCCGACACCCCGGAATACATATTG
GAAAAAGGAACTAAACATGGGCCAGCGATGCTCTGACACCAGAGGAATTGCTTTCGAAGACGTCAGAGT
GCCTAAGGAAAATGTGTTAATCGGTGAAGGAGCAGGTTTCAAGATCGCAATGGGTGCTTTTGATAGAACC
AGACCTACAGTCGCAGCTGGCGCTGTGGGCTAGCCCAGAGAGCTCTGGACGAAGCCACGAAGTATGCC
TGGATAGGAAGACATTTGAAAGCTGCTAGTGGAGCACCAAGGAGTTTCATTTCTGCTCGCAGAAATGCC
GATGAAGGTTGAACTCGCTAGGCTCAGTTACCAGAGAGCAGCCTGGGAGGTTGACTCCGGTCGCCGGAAC
ACTTACTATGCCTCGATTGCAAAGGCTGTGCTGGAGACATTGCCAATCAGCTAGCCACTGACGCCGTGC
AGATTTTCGGAGGCTATGGATTCAACACAGAGTACCCTGTGGAGAAGCTGATGAGGGACGCCAAGATCTA
TCAGATTTATGAAGTACTGCACAAATTCAGAGGCTGATCATAGCTCGTGAGCACATTGAAAAGTATAAA
AATTAA

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Restriction Sites: EcoRI-NotI



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ACCN:	BC013498
Insert Size:	1266 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).
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:	BC013498 , AAH13498
RefSeq Size:	1857 bp
RefSeq ORF:	1266 bp
Locus ID:	11364
Cytogenetics:	3 78.77 cM
Gene Summary:	This gene encodes a homotetrameric 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 C6- and C12-acylCoA. In mice, deficiency of this gene can cause neonatal mortality as well as fasting and cold intolerance. This gene has multiple, intronless pseudogenes. [provided by RefSeq, Nov 2012]