

Product datasheet for **MC201297**

Acads (NM_007383) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acads (NM_007383) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acads
Synonyms:	A1196007; Bcd-1; Bcd1; Hdlq; Hdlq8; SC; SCAD
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC016259 sequence for NM_007383
 GGAAGTCCAGAGCTGCTGCAGGAGGTCCTGGAGGTCTGTGCCATGGCTGCCGCCTTGCTCGCCCGGGCC
 CGTGGCCCTCTCCGTAGAGCTCTCGGTGTTCCGGGACTGGCGACGGTTACACACTGTTTACCAGTCTGTGG
 AGCTGCCTGAGACACACCAGATGTTGCGTCAGACATGCCGTGACTTTGCCGAGAAGGAGTTGGTCCCCAT
 TGCGGCCAGCTGGACAGGGAGCATCTCTCCACAGCTCAGGTTAAGAAGATGGGTGAGCTCGGGCTG
 CTGGCCATGGATGTGCCAGAGGAGCTGAGTGGTGCAGGCTGGATTACCTGGCCTACTCCATCGCCCTGG
 AGGAGATCAGCCGTGCCGCTCCAGCGGAGTTATCATGAGCGTCAACAATTCTCTACTTGGGACC
 CATTCTGAAGTTTGGATCCGCACAGCAGAAGCAACAGTGGATCACCCCTTTCACCAATGGTGACAAAATC
 GGCTGTTTTGCCCTCAGTGAGCCAGGCAATGGCAGTGATGCTGGAGCCGCTTCCACCACTGCCCGGGAAG
 AGGGTGACTCATGGGTCCTCAACGGCACAAAGCTTGGATCACCAACTCCTGGGAGGCTTCCGCCACGGT
 GGTATTTGCCAGCACAGACAGGTCCTCCGGCAGAACAAGGTATCAGTGCCTTCTGGTTCCCATGCCAACT
 CCTGGGCTCACGCTGGGCAAGAAGGAAGACAAGCTGGGCATCCGGGCTCCTCCACAGCTAACCTCATCT
 TTGAGGACTGCCGGATCCCCAAGGAGAACCTGCTTGGGGAGCCTGGGATGGGCTTCAAAAATGCCATGCA
 AACCTGGACATGGTTCGATTGGCATCGCTCCAGGCCCTGGGCATCGCCAGGCCTCCCTGGATTGT
 GCTGTGAAGTATGCCGAGAACCACAATGCCTTTGGGGACCGCTACCAAGCTCCAAAATATCCAGTTCA
 AGCTGGCAGACATGGCCCTGGCCCTGGAGAGTGGCCGCTGCTGACCTGGCGTGCTGCCATGTTGAAAGA
 CAACAAGAAACCTTTCACCAAGGAGTCCGCCATGGCCAAACTGGCTGCATCGGAGGCTGCAACCGCCATT
 AGCCACCAGGCCATCCAGATCCTGGGCGGCATGGGGTATGTGACAGAGATGCCGGCTGAGCGGACTACC
 GAGATGCCCGCATCACTGAGATCTACGAAGGGACCAGCGAAAATCCAGAGACTGGTGATCGCTGGGCATCT
 GCTCCGGAGCTACCGGAGCTGAGCCCTCCTCGGGGACTTGCCTGCCTGCAGACCGAGGCAGAGGGCAGA
 GAGCCTCATGGCTTAACCTTGGAGCCTGGTCAGACCAGAAAGGGACTTGCCTTTCATTCTGCCTGTTCTG
 CTCCGTCCTCACTGTAGACCCCTAGTCAGACTGGGGGAAGTCTATCTCAGGAGAGGGGAGGCCAGAT
 CTGTGACCTGCAACCGAGAAGAAATCAGTTGTGACAGCTCAGAGCTGAGCTTGGCTCTTTACCCCCC
 ACCAACAGTGCCTCTTTCTTTCATTTGAGCCGCCCTTGGAGAGCTGAATGACCCTGGCCCTCTCAGTGCTG
 TTTCCATGAGCCCTCGGAGGCAAGAACAAGGGACAGGACAGGGGTGAGGAGGGGGAGGGGGTGGGGT
 GGCCAGATGGCACGGAGTTTCAAGTGTGAGTCCCCAGGGTGTGTGGGACGGCTGGGGGCTGGGTCA
 TAGGGCCCTCGTGGAGGTCAAGTGCAGCAGGTGCGTGTCTGCTGTAGAACTGCCCGCGCCAATAAA
 GCTCACCTGTGCCCTGAAA

Restriction Sites: RsrII-NotI

ACCN: NM_007383

Insert Size: 1239 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:

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: [BC016259](#), [AAH16259](#)

RefSeq Size: 1880 bp

RefSeq ORF: 1239 bp

Locus ID: 11409

UniProt ID: [Q07417](#)

Cytogenetics: 5 F

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 at C(four)-CoA. In mice, deficiency of this gene has been linked to cold sensitivity and increased high-density lipoprotein levels. [provided by RefSeq, Nov 2012]