

Product datasheet for **MC208097**

Acadl (NM_007381) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acadl (NM_007381) Mouse Untagged Clone
Tag: Tag Free
Symbol: Acadl
Synonyms: AA960361; AU018452; C79855; LC; LCAD
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208097 representing NM_007381
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCGCGCCTGCTCCTCCGCTCCCTGCGCGTCTGAGCGCCCGCTCGGCGCCACGCCCGCTGCCCT
CCGCCCGATGTTCTCATTCTGGAGCAGAAGCGCTCTAGAACTCCTTCTGCTAAAAATTAAGTACAT
TGGAAATCAGGAGAATCTTTTCTCGGAGCATGACATTTTCCGGGAGAGTGAAGGAAGTTTTTCCAAGAA
GAAGTGATTCTCACCACACAGAATGGGAGAAAGCTGGAGAAGTGAAGTAGAGAGGTCTGGAAAAAGCTG
GCAAGCAGGGCTTGGCTTGGCATCAACATCGCAGAGAAACATGGCGGCATTGGTGGGGACTTGGCTCTCAAC
AGCAGTACTTGGGAAGAGCAAGCGTACTCCAATTGCACAGGCCCTGGCTTCCAGCTCCACTCAGATATT
GTCATGCCCTATATTGCGAATTACGGCACAAAAGAAGCAGATCGAGAAGTTCATCCCCAGATGACGGCGG
GCAAGTGATCGGTGCCATAGCCATGACAGAGCCTGGGGCTGGAAGTGACTTACAAGGAGTAAGAACGAA
CGCCAAAAGATCTGGGAGTGATTGGATTCTCAATGGAAGCAAGGTGTTCACTAATGGCTGGTTAAGT
GATCTCGTGATCGTCGTGGCCGTACCAACCGTGAAGCTCGATCGCTGCCATGGCATTAGCCTCTTTT
TGGTGGAAAACGGAATGAAAGGATTTATCAAGGGCCGGAAGCTGCATAAGATGGGAATGAAAGCTCAGGA
CACAGCAGAACTATTCTTTGAAGATGTCCGATTGCCAGCTAATGCCTTACTTGGAGAAGAGAATAAAGGC
TTCTACTACCTCATGCAAGAGCTTCCACAGGAAAGGCTCTTAATTGCTGAGTTGGCGATTCTGCCTGTG
AGTTTCATGTTTGAAGAAACCAGGAACTACGTGAAGCAAAGAAAAGCTTTTGGGAAAACAGTTGCACACAT
ACAGACGGTGCAGCATAAACTAGCAGAATTAAGACACACATATGTGTCACCAGAGCTTTTGTGGACAGC
TGTCTGCAGTTGCATGAAACCAACGTCTGGACTCCGGTTCTGCTTCCATGGCAAATACTGGGCATCTG
AATTACAAAACAGTGTAGCTTATGAATGTGTGCAACTCCACGGAGGCTGGGGGTACATGTGGGAGTACCC
GATTGCAAAGCTTACGTGGATGCTCGGTGCAGCCGATCTACGGTGGTACCAACGAAATAATGAAAGAG
CTGATCGCAAGACAGATCGTCAGTGACAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_007381
Insert Size:	1293 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:	<u>NM_007381.4</u> , <u>NP_031407.2</u>
RefSeq Size:	1948 bp
RefSeq ORF:	1293 bp
Locus ID:	11363
UniProt ID:	<u>P51174</u>
Cytogenetics:	1 33.64 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 C12- and C16-acylCoA. In mice, deficiency of this gene can cause sudden death, cardiomyopathy as well as fasting and cold intolerance. [provided by RefSeq, Nov 2012]