

Product datasheet for **MC219867**

Acad9 (NM_172678) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acad9 (NM_172678) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acad9
Synonyms:	2600017P15Rik; 4732402K02; C630012L17Rik; NPD002
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219867 representing NM_172678
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGGCTGTGTGCTGCTCTCGCGTGGGGCGACTGCGGCGCGGCTGCGGCGCGAGCTTCCCGGGTGC
 TGAGGGAATTCACGGCGAGGCGCCGCCCTGCACACCAGCCTGCAGAGCTGCTCGTTCGCCAAGGAGCT
 CTTCTGGGCAACATCGAGCAGAAAGGAGTTTTCCATTTCAGAGGTCAGTCAACATGAACTTAGTGAA
 ATCAATCAGTTTCGTGGGACCGCTGGAAAAATTCTCACTGAAGAAGTGGACTCTGAAAAATTGACCAGG
 AGGGAAAAATCCCAGTTGACACCTTAGAGAAGTTGAAGAGCCTGGGACTTTTTGGCATACAGGTCCAGA
 AGAATATGGTGGCCTGGCCTCTCAACACGATGTATGCTCGGCTCGGGGAGATCATCAGCCTGGATGCC
 TCTATCACGGTGACCCTGGCAGCACACCAGGCTATCGGCCTCAAGGGGATTATCTTGGTCGGCAATGAGG
 AACAGAAGGCCAAGTATCTGCCAAACTGTCGTCTGGGGAACACATCGCAGCCTTCTGCCTAACAGAGCC
 AGCCAGTGGGAGTGATGCTGCGTCCATCCAGACCAGAGCTACGTTAAGTGAAGATAAGAAGTACTTCATA
 CTCAATGGCTCCAAGTTTTGGATCACCATGGAGGACTGGCCAATATTTTTACTGTGTTGCAAAAACCG
 AGGTGGTCGATTCTGATGGTTCGAAAACAGACAAAATGACCGCATTTCATAGTAGAAAGAGACTTCGGCGG
 AATCACTAATGGGAAACCTGAAGATAAATTAGGCATTCGAGGCTCCAACACATGTGAGGTCCATTTTGAA
 AATACCAGAGTGCCTGTGGAAAAATGTCCTTGGAGAAGTTGGAGGGGGCTTTAAGGTAGCCATGAACATCC
 TGAACAGTGGGCGATTGAGCATGGGCGAGTGTGTGGCCGGGATGCTGAAGAAGCTGATCGAACTGACTGC
 TGAGTAGCCTGTACGAGGAAACAGTTCAACAGGAATCTCAGTGAATTTGGTTGATCCAGGAAAAGTTT
 GCGCTCATGGCTCAGAAGGCATACGTAATGGAGAGTATGGCTTACCTCACTTCAGGGATGCTAGACCAAC
 CAGGATTTCCCGACTGCTCTATCGAGGAGCCATGGTGAAGGTGTTTAGCTCTGAGGCTGCCTGGCAGTG
 GTGAGCGAGGCTCTGCAGATCCTTGGGGCTCAGGCTACATGAAGGACTACCCCTATGAGCGCATGCTG
 CGTGATGCCCGCATTCTCCTAATCTTTGAGGGAACCAATGAGATTCTTCGTTGTTTCATTGCCCTGACAG
 GCCTGCAGCATGCTGGACGCATCCTGACCTCGAGGATCAAAGAGCTTAAAAGTGGCAATGTGACCACAGT
 CATGGAGACGATTGGTCGGAAACTTCGGGATTCTCTGGGCCGAACTGTGGACCTGGGGCTAACAGGCGAT
 CTTGGTGTGTCCACCCAGCCTTGGCGACAGTGCCAACAAGCTTGAGGAAAATGTCCATTACTTTGGCC
 GGACTGTTGAGACCCTGTACTCCGTTTTGAAAGAACATTGTAGAGGAACAGCTGGTGTAAAGCGGGT
 AGCCAACATCCTCATCACTTGTATGGCATGACTGCTGTGCTGTCGAGAGCCAGCCGCTCCATCAGAAAT
 GGGCTCAGGAATCATGATCACGAGGTTCTGTTGGCCAACATGTTCTGTGGAAGCTTATTTCCAGAAATC
 TCTTCAGCCTGTCTCAGCTGGACAAGAACGCTCCAGAAAACCTGGATGAGCAGATTAAGAAAGTGTCTCG
 GCAGATCCTTGAGAAGCGAGCCTATATCTGTGCCACCCGCTGGACAGAGCATCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_172678

Insert Size: 1878 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: [NM_172678.3](#), [NP_766266.3](#)

RefSeq Size: 3913 bp

RefSeq ORF: 1878 bp

Locus ID: 229211

UniProt ID: [Q8JZN5](#)

Cytogenetics: 3 B

Gene Summary: Required for mitochondrial complex I assembly (By similarity). Has a dehydrogenase activity on palmitoyl-CoA (C16:0) and stearoyl-CoA (C18:0). It is three times more active on palmitoyl-CoA than on stearoyl-CoA. However, it does not play a primary role in long-chain fatty acid oxidation (By similarity). Has little activity on octanoyl-CoA (C8:0), butyryl-CoA (C4:0) or isovaleryl-CoA (5:0) (By similarity).[UniProtKB/Swiss-Prot Function]