

Product datasheet for **RN215382**

Acad9 (NM_181768) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acad9 (NM_181768) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Acad9
Synonyms:	Nyggf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN215382 representing NM_181768
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTGGCTATGTACTGTTCTCGCGTGGGGCGACTGCGGCGGCAGCTGCGGCGCGAGCTTCCCGGTGC
 TGAGGGTCTTACGGAGAGGGCGCCGACATTGCACACCAGTCTGCAGAGCTGCTCGTTCGCCAAGGAGCT
 CTTCTGGGTCACATCCAGCAGAAAGGAGTTTTCCATTCCAGAGGTTAGTCAAGAAGAGCTTAGTGAA
 ATCAATCAGTTTGTGGACCGTTGGAAAAATCTTTAATGAAGAAGTGGACTCTCGAAAAATTGACCAGG
 AGGGAAAAATCCCAGCTGACACCTTAGCGAAGTTGAAGAGCCTGGGACTTTTTGGCATTAGGTCCAGA
 AGAATATGGTGGCCTGGCCTCTCCAACACCATGTATGCCCGCTTGGGGAGATCATCAGCATGGATGCC
 TCCATCACAGTGACCCTGGCAGCACACCAAGCTATCGGCCTCAAGGGGATTATCCTGGTCGCAATGAGG
 AGCAGAAGGCCAAGTATCTGCCAAACTGTCGTCTGGGGAACACATCGCAGCCTTCTGCCTAACGGAGCC
 AGCCAGTGGGAGTGATGTCCTCCATCCAGACCAGAGCTACGTTAAGTGAAGATAAGAAGTACTTTGTT
 CTAATGGCTCCAAGTTTTGGATCACTAATGGAGGACTGGCCAATATTTTTACTGTGTTGCAAAAAGT
 AGGTGGTTGATTCTGATGGTTCGATAAAAGACAAAATGACCGCATTTCATAGTAGAACGAGACTTTGGTGG
 AATCACTAATGGGAAACCTGAAGATAAATTAGGCATTCGAGGCTCCAACACATGTGAAGTCCATTTTGAA
 AATACCAGAGTCCCGTGGAGAAATGTCCTTGGAGAAGTTGGGGTGGCTTTAAGGTGGCCATGAACATCC
 TCAACAGTGGACGATTGAGCATGGGCGAGTGTGTGGCCGGGATGCTCAAGAACTGATTGAACAGACTGC
 TGAGTAGCCTGTACGAGGAAACAGTTCAATAGGAATCTCAGTGAATTTGGGCTGATTGAGGAAAAGTTT
 GCGCTCATGGCTCAGAAGCGTATGTAATGGAGAGTATGGCTTACCTCACTTCAGGGATGCTGGACCAAC
 CGGGATTTCCCGACTGCTCTATCGAGGAGCCATGGTGAAGGTGTTTAGCTCTGAGGCTGCCTGGCAGTG
 TGTGAGCGAGGCTCTGCAGATCCTTGGGGCTCAGGCTACATGAAGGACTACCCTTATGAGCGCATGCTA
 CGTGATGCCCGCATTCTCCTAATTTTTGAGGGAACCAATGAGATTCTTCGTTGTTTCATTGCCCTGACAG
 GCCTGCAGCATGCTGGACGCATCCTGACCTCGAGGATCAAAGAGCTCAAAGTGGCAATGTGACCACAGT
 CATGGAGACGATTGGTCGGAAGCTTCGGGACTCGCTGGGCCGAACTGTAGACCTGGGGCTGTCGAGCAAT
 ATTGCTGTTGTCCACCCAGTCTTGGAGACAGTCCAACAAGCTGGAAGAAAATGTGCATTACTTTGGCC
 GGACTGTTGAGACCCTGTTACTCCGATTTGAAAGACCATTGTAGAGGAACAGCTGGTGTGAAGCGGGT
 AGCCAACATCCTCATCAACCTGTATGGCATGACCCTGTGCTGTCAAGGGCCAGCCGCTCCATCAGAAAT
 GGGCTCAAGAATCACACCATGAGATTCTGTTGGCCAACATGTTCTGCGTGAAGCTTATTTCCAGAAATC
 TCTTCAGCCTGTCTCAGCTGGACAAGTATGCTCCAGAGAACCCTGGATGAACAGATTAAGAAGGTGTCTCA
 GCAGATCCTTGAGAAGCGAGCCTACATCTGTGCCACCCTCTGGACAGAGCATCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_181768

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_181768.2](#), [NP_861433.2](#)

RefSeq Size: 2471 bp

RefSeq ORF: 1878 bp

Locus ID: 294973

UniProt ID: [B1WC61](#)

Cytogenetics: 2q25

Gene Summary: As part of the MCIA complex, primarily participates to the assembly of the mitochondrial complex I and therefore plays a role in oxidative phosphorylation. This moonlighting protein has also a dehydrogenase activity toward a broad range of substrates with greater specificity for long-chain unsaturated acyl-CoAs. However, in vivo, it does not seem to play a primary role in fatty acid oxidation. In addition, the function in complex I assembly is independent of the dehydrogenase activity of the protein.[UniProtKB/Swiss-Prot Function]