

Product datasheet for **MR209542**

Acad9 (NM_172678) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR209542 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGGCTGTGTGCTGCTCTCGCGTGGGGCGACTGCGGCGCGGCTGCGGCGCGAGCTTCCCGGGTGC
 TGAGGGAATTCACGGCGAGGCGCCGCCCTGCACACCAGCCTGCAGAGCTGCTCGTTCGCCAAGGAGCT
 CTTCTGGGCAACATCAAGCAGAAAGGAGTTTTCCCATTTCCAGAGGTCAGTCAACATGAACTTAGTGAA
 ATCAATCAGTTTCGTGGGACCGCTGGAAAAATTCTCACTGAAGAAGTGGACTCTCGAAAAATTGACCAGG
 AGGGAAAAATCCCAGTTGACACCTTAGAGAAGTTGAAGAGCCTGGGACTTTTTGGCATACAGGTCCAGA
 AGAATATGGTGGCCTGGCCTCTCAACACCATGTATGCTCGGCTCGGGGAGATCATCAGCCTGGATGCC
 TCTATCACGGTGACCCTGGCAGCACACCAGGCTATCGGCCTCAAGGGGATTATCTTGGTCCGCAATGACG
 AACAGAAGGCCAAGTATCTGCCAAACTGTCGTCTGGGGAACACATCGCAGCCTTCTGCCTAACAGAGCC
 AGCCAGTGGGAGTGATGTCATCCATCCAGACCAGAGCTACGTTAAGTGAAGATAAGAAGTACTTCATC
 CTAATGGCTCCAAGTTTTGGATCACC AATGGAGGACTGGCCAATATTTTTACTGTGTTGCAAAAACCG
 AGGTGGTTGATTCTGATGGTTCGAAAACAGACAAAATGACCGCATTTCATAGTAGAAAAGAGACTTCGGCGG
 AATCACTAATGGGAAACCGGAAGATAAATTAGGCATTCGAGGCTCCAACACATGTGAGGTCCATTTTGAA
 AATACCAGAGTGCCTGTGGAAAAATGTCCTTGGAGAAGTTGGAGGGGGCTTTAAGGTAGCCATGAACATCC
 TGAACAGTGGGCGATTGAGCATGGGCGAGTGTGTGGCCGGGATGCTGAAGAAGCTGATCGAACTGACTGC
 TGAGTAGCCTGTACGAGGAAACAGTTCAACAGGAATCTCAGTGAATTTGGGTTGATTGAGGAAAAGTTT
 GCGCTCATGGCTCAGAAGGCATACGTAATGGAGAGTATGGCTTACCTCACTTCAGGGATGCTAGACCAAC
 CAGGATTTCCCGACTGCTCTATCGAGGCGCCATGGTGAAGGTGTTTAGCTCTGAGGCTGCCTGGCAGTG
 GTGAGCGAGGCTCTGCAGATCCTTGGGGCTCAGGCTACATGAAGGACTACCCCTATGAGCGCATGCTG
 CGTGATGCCCGCATTCTCCTAATCTTTGAGGGAACCAATGAGATTCTTCGTTGTTTCATTGCCCTGACAG
 GCCTGCAGCATGCTGGACGCATCCTGACCTCGAGGATCAAAGAGCTTAAAAGTGGCAATGTGACCACAGT
 CATGGAGACGATTGGTCGGAAACTTCGGGATTCTCTGGGCCGAACTGTGGACCTGGGGCTAACAGGCGAT
 CTTGGTGTGTCCACCCAGCCTTGGCGACAGTGCCAACAAGCTTGAGGAAAATGTCCATTACTTTGGCC
 GGACTGTTGAGACCCTGTACTCCGTTTTGAAAGAACATTGTAGAGGAACAGCTGGTGTAAAGCGGGT
 AGCCAACATCCTCATCACTTGTATGGCATGACTGCTGTGCTGTCGAGAGCCAGCCGCTCCATCAGAATT
 GGGCTCAGGAATCATGATCACGAGGTTCTGTTGGCCAACATGTTCTGTGTGGAAGCTTATTTCCAGAACT
 TCTTCAGCCTGTCTCAGCTGGACAAGAACGCTCCAGAAAACCTGGATGAGCAGATTAAGAAAGTGTCTCG
 GCAGATCCTTGAGAAGCGAGCCTATATCTGTGCCACCCGCTGGACAGAGCATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209542 protein sequence
 Red=Cloning site Green=Tags(s)

MSGCVLLSRGATAAAAAARSRVLREFTARRRPLHTSLQSCSFAKELFLGNIKQKGVFPFPEVSQHELSE
 INQFVGPLEKFFTEEVDNRKIDQEGKIPVDLTLEKLSLGLFGIQVPEEYGGGLSNTMYARLGEIISLDA
 SITVTLAAHQAIGLKGIILVGNDEQKAKYLPKLSGHEIAAFCLTEPASGSDAASIQTRATLSEDKKYFI
 LNGSKVWITNGLANIFTVFAKTEVVDSGSKTDKMTAFIVERDFGGITNGKPEDKLGIRGSNTCEVHFE
 NTRVPPVENVLGEVGGGFKVAMNINLSGRFSMGS AVAGMLKKLIELTAEYACTRKQFNRLSEFGLIQEKF
 ALMAQKAYVMESMAYLTSGMLDQPGFPDCSIEAAMVKVFSSEA WQC VSEALQILGGSGYMKDYPYERML
 RDARILLIFEGTNEILRLFIALTGLQHAGRILTSRIKELKSGNVTVMETIGRKL RDSLGRVLDLGTGD
 LGVVHPSLGD SANKLEENVHYFGRTVETLLLRFGKNIVEEQVLVLRVANILINLYGMTAVLSRASRSIRI
 GLRNHDHEVLLANMFCVEAYFQNLFSLSQLDKNAPENLDEQIKKVSQRILEKRAYICAHPLDRAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172678

ORF Size: 1878 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_172678.2](#)

RefSeq Size: 3913 bp

RefSeq ORF: 1878 bp

Locus ID: 229211

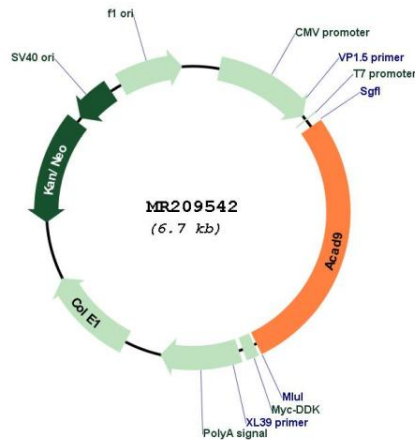
UniProt ID: [Q8JZN5](#)

Cytogenetics: 3 B

MW: 68.7 kDa

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]

Product images:



Circular map for MR209542