

Product datasheet for **MG209542**

Acad9 (BC031137) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acad9 (BC031137) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acad9
Synonyms:	NPD002, 4732402K02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209542 representing BC031137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGGCTGTGTGCTGCTCTCGCGTGGGGCGACTGCGGCGCGGCTGCGGCGCGAGCTTCCCGGGTGC
 TGAGGGAATTCACGGCGAGGCGCCGCCCTGCACACCAGCCTGCAGAGCTGCTCGTTCGCCAAGGAGCT
 CTTCTGGGCAACATCAAGCAGAAAGGAGTTTTCCATTTCAGAGGTCAGTCAACATGAACTTAGTGAA
 ATCAATCAGTTTCGTGGGACCGCTGGAAAAATTCTCACTGAAGAAGTGGACTCTCGAAAAATTGACCAGG
 AGGGAAAAATCCAGTTGACACCTTAGAGAAGTTGAAGAGCCTGGGACTTTTTGGCATACAGGTCCAGA
 AGAATATGGTGGCCTGGCCTCTCAACACCATGTATGCTCGGCTCGGGGAGATCATCAGCCTGGATGCC
 TCTATCACGGTGACCCTGGCAGCACACCAGGCTATCGGCCTCAAGGGGATTATCTTGGTGGCAATGACG
 AACAGAAGGCCAAGTATCTGCCAAACTGTCGTCTGGGGAACACATCGCAGCCTTCTGCCTAACAGAGCC
 AGCCAGTGGGAGTGATGTCATCCATCCAGACCAGAGCTACGTTAAGTGAAGATAAGAAGTACTTCATC
 CTAATGGCTCCAAGTTTTGGATCACCATGGAGGACTGGCCAATATTTTTACTGTGTTGCAAAAACCG
 AGGTGGTTGATTCTGATGGTTCGAAAACAGACAAAATGACCGCATTTCATAGTAGAAAGAGACTTCGGCGG
 AATCACTAATGGGAAACCGGAAGATAAATTAGGCATTCGAGGCTCCAACACATGTGAGGTCCATTTTGAA
 AATACCAGAGTGCCTGTGGAAAAATGTCCTTGGAGAAGTTGGAGGGGGCTTTAAGGTAGCCATGAACATCC
 TGAACAGTGGGCGATTGAGCATGGGCGAGTGTGTGGCCGGGATGCTGAAGAAGCTGATCGAACTGACTGC
 TGAGTAGCCTGTACGAGGAAACAGTTCAACAGGAATCTCAGTGAATTTGGTTGATTGAGGAAAAGTTT
 GCGCTCATGGCTCAGAAGGCATACGTAATGGAGAGTATGGCTTACCTCACTTCAGGGATGCTAGACCAAC
 CAGGATTTCCCGACTGCTCTATCGAGGAGCCATGGTGAAGGTGTTTAGCTCTGAGGCTGCCTGGCAGTG
 TGTGAGCGAGGCTCTGCAGATCCTTGGGGCTCAGGCTACATGAAGGACTACCCCTATGAGCGCATGCTG
 CGTGATGCCCGCATTCTCCTAATCTTTGAGGGAACCAATGAGATTCTTCGTTGTTTCATTGCCCTGACAG
 GCCTGCAGCATGCTGGACGCATCCTGACCTCGAGGATCAAAGAGCTTAAAAGTGGCAATGTGACCACAGT
 CATGGAGACGATTGGTCGGAAACTTCGGGATTCTCTGGGCCGAACTGTGGACCTGGGGCTAACAGGCGAT
 CTTGGTGTGTCCACCCAGCCTTGGCGACAGTGCCAACAAGCTTGAAGAAAATGTCCATTACTTTGGCC
 GGACTGTTGAGACCCTGTACTCCGTTTTGAAAGAACATTGTAGAGGAACAGCTGGTGTAAAGCGGGT
 AGCCAACATCCTCATCACTTGTATGGCATGACTGCTGTGCTGTCGAGAGCCAGCCGCTCCATCAGAAAT
 GGGCTCAGGAATCATGATCACGAGTTCTGTTGGCCAACATGTTCTGTGTGGAAGCTTATTTCCAGAAATC
 TCTTCAGCCTGTCTCAGCTGGACAAGAAGCCTCCAGAAAACCTGGATGAGCAGATTAAGAAAGTGTCTCG
 GCAGATCCTTGAGAAGCGAGCCTATATCTGTGCCACCCGCTGGACAGAGCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209542 representing BC031137
 Red=Cloning site Green=Tags(s)

MSGCVLLSRGATAAAAAARASRVLRFTARRRPLHTSLQSCSFAKELFLGNKQKGVFPFPEVSQHELSE
 INQFVGPLEKFFTEEVDNRKIDQEGKIPVDTLEKLSLGLFGIQVPEEYGGGLSNTMYARLGEIISLDA
 SITVTLAAHQAIKGLKGIILVGNDEQKAKYLPKLSGHEIAAFCLTEPASGSDAASIQTRATLSEDKKYFI
 LNGSKVWITNGLANIFVFAKTEVVDSGSKTDKMTAFIVERDFGGITNGKPEDKLGIRGSNTCEVHFE
 NTRVPVENVLGEVGGGFKVAMNINLSGRFSMGS AVAGMLKKLIELTAEYACTRKQFNRLSEFGLIQEKF
 ALMAQKAYVMESMAYLTSGLMDQPGFPDCSIEAAMVKVFSSEA WQCVSEALQILGGSGYMKDYPYERML
 RDARILLIFEGTNEILRLFIALTGLQHAGRILTSRIKELKSGNVTVMETIGRKL RDSLGRVLDLGLTGD
 LGVVHPSLGDSANKLEENVHYFGRTVETLLRFGKNIVEEQLVLRVANILINLYGMTAVLSRASRSIRI
 GLRNHDHEVLLANMFCVEAYFQNLFSLSQLDKNAPENLDEQIKKVSQRILEKRAYICAHPLDRAS

TRTRPLE - GFP Tag - V

Restriction Sites:

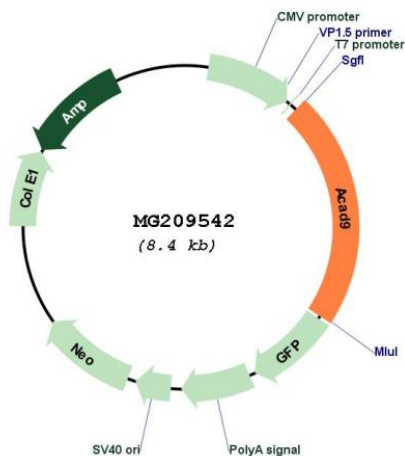
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC031137
 ORF Size: 1877 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:	<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:	BC031137 , AAH31137
RefSeq Size:	3071 bp
RefSeq ORF:	1877 bp
Locus ID:	229211
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]