

Product datasheet for MR211579

Acad10 (NM_028037) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acad10 (NM_028037) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acad10
Synonyms:	2410021P16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211579 representing NM_028037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGTAAAGAAGACTTTCCAGCCTTCCACTCTGCACTGGGCATGGAGGACCACGGCCCTGAACCATC
CCCTGGGCAGGCATCAGGGAGGCCTCCGCTGGACACATTCTGGAGGCCGAAGCTACAGAGCAGTCATTTT
TGACACGGGCGGAGTTCTCGTGCCTTCTCCAGGGACAGTGGCTGTGGGCTGGGAGGTGCAGAATCATGTC
CCTTCTGGAATATAGTGAAGGCTTTCATCAGAGGTGGCGACAGTGGCCCTGGATAAAGTTTATAAAAG
GAGAGATAACGACCGAGCACTTCTTGAAGAATTCGGGAGACTGTGCTCTGAAATCGCAAAGACTCCGT
GCCCGTGAGCTCCTATTTCTCTCTGCTGACCAGTGAGCAGGTGACAAAGCAGTCCCGGTGATGACTCAG
GCCATCTCTCAGATCAGAGCAAAAGGCCTCCAGACTGCAGTCTCACCACAACTTTTCATCTTTCCAGCG
GGGAAAGCTTCTGCCCTGGACCGGAAACAGTTTGATGTGGTGGTTGAGTCTGCCTGGAAAGGCATCTG
TAAGCCAGATCCCAGGATATCCAGCTGTGCCTGCAGAGGCTGAGCCTGCAGCCCTCAGAGGCTATTTTT
CTTGATGATCTGGGATCCAATCTAAAAGTGGCTGCCAGCCTGGGCATTACACCATCAAGGTTGACAGGC
CCGAGACAGCAGTGAAGGAGCTGGAGGCTCTACTGGGTTTCCACTGCACTTGGGCGTCCCAACACCCG
GCCTGTGAGGAAGACCATGGCGATTCCACAAGATGCCTTGGAGAAGTACCTGAAGGGCTTGCTGGGGACC
CACTCCACCGGCCCATGGAGCTCCTTTCAGTTTGATCATGGACAGTCAAACCCAAGTACTACATCAGGC
TGGCTGACCGTCAGCTGGTCTGAGGAAGAAACCCTCGGGGACCCTCCTCCCTCTGCCCATGCCATAGA
AAGGGAATTCAGGATCATGAAAGCCCTTCAAATGCAGGAGTCCCTGTCCCTACTGTTCTTGACCTCTGT
GAAGACTCAAGCATCATCGGCACCCCTTCTACTTGATGGAGTACTGCCCGGCATCATCTACAAAGACC
CCTCCCTGCCCGCTTGGAGCCAGCCGGCGGGAAGCCATATACACTGCCATGAACCAAGTCTGTGCAG
AATTCACAGTGTGGACCTGCAGGCCACCAGCCTGGACAGCTTCGGCAAGCAAGGGGACTATATTCCTCGA
CAGGTGCAAACCTGGACCAAGCAGTACCGAGCAGCAGAAACCAGCAGCATCCAGCAATGGAGAGGCTTA
TCCAGTGGCTGCCACTGCACCTCCAGGCAACAGAGAACCACGCTGGTGCATGGTGACTTCAGGCTGGA
CAACCTGATATTCATCCTGAAAAGCGGAAGTCTCGCTGTCCCTGGACTGGAACTTTCCACCTTAGGA



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GACCCCTTTGCTGATGTGGCCTACAGCTGCCTGGCCTACTACCTGCCATCCAGCTTTCCATTCTGAGAG
 GGTTTCAGAGACCAGGATGTGACAAAGCTGGGCATCCCCACTGTGGAGGAATACTTCAGGATGACTGTCT
 TAACATGGGCATCCCACCCATCGACAACCTGGAACCTTACATGGCTTTCTCCTTTTTCCGGGTGGCTGCA
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 GGCCTGAGGAGCAGAAGGCCGCTGGTGGTCCACTGTTGGAGGCAGGATCCGTTCTTGTCTTGCCA
 TGACTGAGCCTCAGGTGGCTCCTCAGATGCCTTAACATCGAGGCTTCCATCAAAGAGGAAGATGGCTG
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 CAGGAATCACAGTCATCCGGCCTCTGTCAGTGTGGTTGGAGGATCCTCCAGGTGGCCACGGTGAAGT
 ACGGTTCAAGGACGTGCGTGTGCCAAGGAAAACATACTCCTGGGCCCTGGCCGAGGCTTTGAGATCGCT
 CAGGGCAGGCTGGGGCTGGCCGGATTCACTGCATGAGGTTGATTGGGTATTCAGAGAGGGCCCTGG
 CACTCATGAAGACACGGGTGATGTCCCGCACGGCTTCGGGAAGCCCCTGTGGAGCAGGGCACCATCCT
 GGCAGACATTGCCGGTACAGTGTGGAGATCGAGCAGGCCGGCTGCTGGTGTGAAAGCTGCTCACCTC
 ATGGATGTGGCCGAAAATAGACTGCAGCTTATAGCCTTTGAGCAGCGGGCCTCAGCAGTACTACCCCTGGC
 CCTATCACGTAATTGACCGCTATTACGGCTTTGAGCAGCGGGCCTCAGCAGTACTACCCCTGGC
 TCAGTTCTTGGCTGGGCCGAGCCCTGCGCTTGCCTGATGGCCCTGATGAAGTACACAGCTGACAGTG
 GCTAAGATGGAAGTGAAGAATCAGTCCAGGATGCAGGAACACAGCAGTGGCCAGAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211579 representing NM_028037
 Red=Cloning site Green=Tags(s)

MLVRRLFQPSLTHWAWRRTALNHLPLGRHQGLRWTHSGGRSYRAVIFDFTGGVLVPSPGTVAVGWVQNHV
 PSGTIVKAFIRGGDSGPWIRFIKGEITTEHFLEEFGRLCSEIAKTSVPVSSYFSLTSEQVTKQFPVMTQ
 AISQIRAKGLQAVL TNNFHLSSGESFLPLDRKQFDVVVESCLEGIKCPDPRIFQLCLQRLSLQPSAIF
 LDDLGSNLKVAASLGIHTIKVDRPETAVKELEALLGFPLHLGVPNTRPVRKTMaipQDALEKYLKGLLGT
 HSTGPMELLQFDHGQSNPTYIIRLADRQLVLRKKPSGTLPSAHAIEREFRIMKALANAGVPVPTVLDLC
 EDSSIIGTPFYLMYCPGIIYKDPSPGLEPSRREAIYTAMNQVLCRIHSVDLQATSLDSFGKQGDYIPR
 QVQWTWKYRAAETSSIPAMERLIQWLPLHLPRQRTTLVHGDFRLDNLIFHPEKAEVLAVLDWELSTLG
 DPFADVAYSCLAYLPSFPILRGRDQDVTKLGIPTVEEYFRMYCLNMGIPPIDNWNFYMAFSFRVAA
 ILQGVYKRSLTGQASSATAQQSGLTESMAELAWDFATKEGFRVFKEMPAKTLRSRSHAWAGPRSPRTP
 KGVRGHSTVAAAAPSHEAKGGLVISPEGLSPA VRKLYEQLVQFIEQKVYPLEPELQRHQASADRWSPSP
 IEDLKEKAKAEGLNWLFPLETDPEKKYGAGL TNVEYAHLCVVMGMSLYASEIFNCSAPDTGNMELVRY
 GTEEQKARWLVPLLEGRIRSCFAMTEPQVASSDASNIEASIKEEDGCYVINGHKWWTSGILDPRCKLCVF
 MGKTDQPAPRHQQSMLLVPMDSPGITVIRPLSVFGLDPPGGHGEVRFKDVVRVPKENILLGPRGFIEA
 QGRLGPRGRIHHCMLRIGYSERALALMKTRVMSRTAFGKPLVEQGTILADIARSRVEIEQARLLVLKAAHL
 MDVAGNKTAALDIAMIKMVVPSMAYHVIDRAIQAFGAAGLSSDYPLAQFFGWARALRFADGPDEVHQLTV
 AKMELKNQSRMQEPAVPRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9040_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028037

ORF Size: 3207 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_028037.4](#), [NP_082313.2](#)

RefSeq Size: 3621 bp

RefSeq ORF: 3210 bp

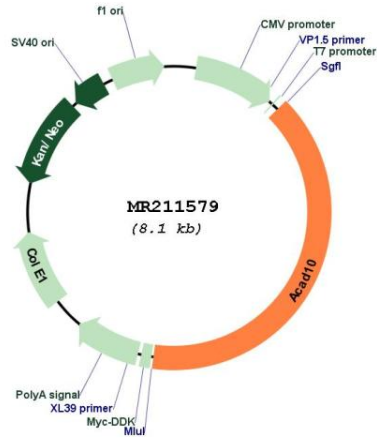
Locus ID: 71985

UniProt ID: [Q8K370](#)

Cytogenetics: 5 F
 MW: 119.4 kDa

Gene Summary: Acyl-CoA dehydrogenase only active with R- and S-2-methyl-C15-CoA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211579