

Product datasheet for **MR224659**

Acaa1a (NM_130864) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acaa1a (NM_130864) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acaa1a
Synonyms:	Acaa; Acaa1; D9Ertd25e; PTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224659 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCGGCTGCAGGTAGTGTGGGCCACCTGGCTGGCCGGCCGAGTCGAGCTCCGCGCTGCAAGCTG
 CGCCTGCTCCGCTAGGTTCCCGCAGGCCCTCGGCCTCCGACGTGGTGGTGGTGCACGGACGGCGCACCCC
 CATCGGCCCGCCAGCCGTGGAGGCTTCAAGAACCACCCCGACGAGCTTCTGTGGCCGTGTTGACC
 GCGGTTCTCCAGGACGTGAGGCTAAAGCCTGAGCAGCTGGGAGACATCTCCGTGGCAATGTTCTTGAGC
 CAGGAGCCGGGGCTGTCATGGCACGCATCGCCCAATTTCTGAGCGGCATCCAGAGACTGTACCTTTGTC
 TACGGTCAACAGACAGTGTTCATCGGGACTGCAGGCAGTGGCCAACATTGCTGGTGGCATCAGAAATGGG
 TCTTATGACATTGGCATGGCCTGTGGGGTGGAGTCCATGTCCCTGTCTGGGATGGGGAACCTGGGAATA
 TCTTCCCGCCTGCTGGAGAGTGAGAAAGCCAGAGACTGCCTGACTCCTATGGGGATGACCTCGGAGAA
 TGTGGCTGAGCGTTTGGCATTTCACGGCAGAAGCAGGATGACTTTGCGCTGGCCTCCAGCAGAAGGCA
 GCAAGCGCCAGAGCAGAGGATGCTTCCGTGCTGAGATTGTGCCTGTGACAACCACTGTCCTGGATGACA
 AGGGTGACAAGAAAACCATCACCGTGTCTCAGGATGAGGGTGTCCGTCCAGCACCACCATGCAGGGCCT
 GGCCAAGCTGAAGCCTGCCTTCAAGGATGGAGGCTCTACCACGGCTGAAACTCCAGTCAGGTGAGTGAT
 GGAGCAGCTGCCGTCTGCTGGCTCGGAGGTCCAAGGCTGAAGAACTGGGCTCCCATCCTTGGGGTCC
 TGAGGTCTATGCAGTGGTGGGGTCCCTCCTGACGTCATGGGCATCGGACCTGCCTATGCCATCCCTGC
 AGCCTTGAGAAAGCAGGGCTGACTGTGAATGACATAGACATCTTTGAGATCAATGAGGCCTTTGCAAGT
 CAGGCCGTCTACTGTGTGAGAAGCTAGGAATTCCTGCAGAGAAGTGAACCCGCTGGGGGTGCAATAG
 CCCTGGGCCACCCCTGGGCTGCACGGGAGCAAGGCAGTTGTACGCTACTCAATGAACTGAAGCGTCCG
 TGGCAGACGGGCTTACGGCGTGGTATCCATGTGCATCGGACTGGGATGGGAGCTGCTGCCGTCTTTGAA
 TACCCTGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224659 protein sequence
 Red=Cloning site Green=Tags(s)

MHRLQVVLGHLAGRPESSALQAAPCSARFPQASASDVVVVHGRRTPIGRASRGGFKNTTPDELLSAVLT
 AVLQDVRLKPEQLGDISVGNVLEPGAGAYMARIQFLSGIPETVPLSTVNRQCSSGLQAVANIAGGIRNG
 SYDIGMACGVESMSLSGMGNPGNISSRLLESEKARDCLTPMGMTSENAERFGISRQKQDDFALASQKA
 ASAQSRGCFRAEIVPVTTTTLDDKGDKKTITVSQDEGVRPSTTMQGLAKLKPAFKDGGSTTAGNSSQVSD
 GAAAVLLARRSKAEELGLPILGVLSYAVVGVPPDVMGIGPAYAIPAALQKAGLTVNDIDIFEINEAFAS
 QAVYCVKELGIPAEKVNPLGGAIALGHPLGCTGARQVVTLNKLKRRRRRAYGVVSMCIGTMGAAAVFE
 YPGN

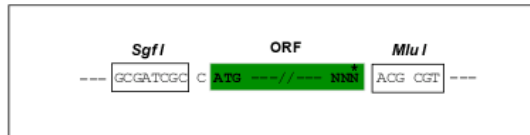
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_130864

ORF Size: 1275 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_130864.1](#)

RefSeq Size: 1758 bp

RefSeq ORF: 1275 bp

Locus ID: 113868

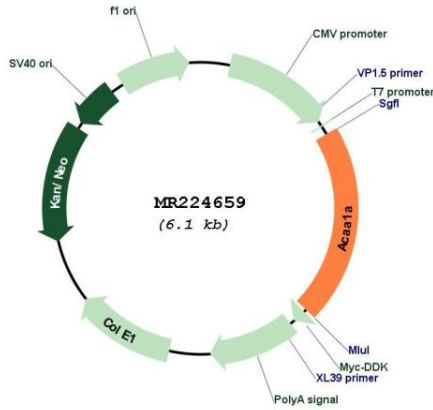
UniProt ID: [Q921H8](#)

Cytogenetics: 9 71.33 cM

MW: 44 kDa

Gene Summary: Responsible for the thiolytic cleavage of straight chain 3-oxoacyl-CoAs. Catalyzes the cleavage of short, medium and long straight chain 3-oxoacyl-CoAs, medium chain 3-oxoacyl-CoAs being the best substrates.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224659