

Product datasheet for **MG206761**

Acaa1b (NM_146230) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acaa1b (NM_146230) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acaa1b
Synonyms:	MGC29978
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206761 representing NM_146230 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCGGCTGCAGGTAGTGCTGGGTACCTGGCCGGCCGGCCGAGTCGAGCTCCGCGCTGCAAGCTG
CGCCCTGCTCCGCTGGCTTCCTGCAGGCCTCGGCCTCCGACGTGGTGGTGGTGCACGGACGGCGCACTCC
CATTGGCCGCGCCAGCCGTGGCTGCTTCAAGGACACACCCCGACGAGCTTCTGTCGGCCGTGTTGACC
GCGGTTTCCAGGACGTGAAGCTAAAGCCTGAGCAGCTGGGAGACATCTCCGTGGCAATGTGCTTCAGC
CCGGGGCTGGAGCCATTATGGCAGCATCGCCAGTTCTGAGCGGCATCCAGAGACTGTACCTTTGTC
TACGGTCAACAGACAGTGTTCATCGGGACTGCAGGCAAGTGGCCAACATTGCTGGTGGCATCAGAAATGGG
TCTTATGACATTGGCATGGCCTGTGGGGTGGAGTCCATGACCCTGTCCCAGAGAGGGAACCATGGGAATA
TTTCTTCCCGCTGCTGGAGAACGAGAAGGCCAGAGACTGCCTGATTCTATGGGGATAACTTCGGAGAA
TGTGGCTGAGCGGTTTGGCGTTTCACGGCAGAAGCAGGATGCCTTTGCGCTGGCCTCCCAGCAGAAGGCA
GCAAGCGCCAGAGCAGAGGATGCTTCCATGCTGAGATTGTGCCTGTGACAACCACTGTCTGAATGACA
AGGGTGACAAGAAAACCATCACTGTGTCTCAGGATGAGGGTGTCGCCCCAGCACCACCATGCAGGGCCT
GGCCAAGCTGAAGCCTGCCTTCAAGGATGGAGGCTCTACCACGGCTGGAACTCCAGTCAGGTGAGTGAT
GGAGCAGCTGCCGTCTGCTGGCTCGGAGGTCCAAGGCTGAAGAACTGGGCCTCCCCATCCTTGGGGTCC
TGAGGTCTATGCAGTGGTTCGGGGTCCCTCTGACGTGATGGGCATCGGACCTGCCTATGCCATCCCTGC
AGCCTTGCAAGAGCAGGGCTGACTGTGAATGACATAGACATCTTTGAGATCAATGAGGCCTTTGCAAGT
CAGGCCGTCTACTGTGTGGAGAAGTTAGGAATTCCTGCAGAGAAGGTGAACCCGCTGGGGGTGCAATAG
CCCTGGGCCACCCCTGGGCTGCACGGGAGCAAGGCAGTTGTACGCTACTCAATGAAGTGAAGCGCCG
TGGCAGACGGGCTTACGGCGTGGTATCCATGTGCATCGGGACTGGGATGGGAGCTGCTGCGGTCTTTGAA
TACCCTGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG206761 representing NM_146230
 Red=Cloning site Green=Tags(s)

MHRLQVVLGHLAGRPESSSALQAAPCSAGFLQASASDVVVHGRRTPIGRASRGCFKDTTPDELLSAVLT
 AVLQDVKLKPEQLGDISVGNVLQPGAGAIMARIAQFLSGIPETVPLSTVNRQCSSGLQAVANIAGGIRNG
 SYDIGMACGVESMTLSQRGNHGNISSRLLENKARDCLIPMGITSENAERFGVSRQKQDAFALASQOKA
 ASAQSRGCFHAEIVPVTTLVNDKGDKKITVTSQDEGVRPSTTMQGLAKLKPFAKDDGGSTTAGNSSQVSD
 GAAAVLLARRSKAEELGLPILGVLRSYAVVGVPDVMGIGPAYAIPAALQKAGLTVNDIDIFEINEAFAS
 QAVYCVKELGIPAIEKVNPLGGAIALGHPLGCTGARQVVTLNELKRRGRRAYGVVSMCIGTMGAAAVFE
 YPGN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_146230

ORF Size: 1272 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_146230.3](#), [NP_666342.1](#)

RefSeq Size: 1669 bp

RefSeq ORF: 1275 bp

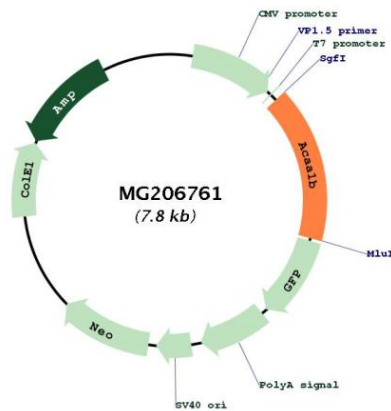
Locus ID: 235674

UniProt ID: [Q8VCH0](#)

Cytogenetics: 9 F3

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 MG206761