

Product datasheet for MR223495

Acacb (NM_133904) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acacb (NM_133904) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acacb
Synonyms:	Acc2; Accb; AI597064; AW743042
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223495 representing NM_133904 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGTCTTGCTTCTTTCTGACTTGCCTGGTTTTCTCCTGCCTGACCTTTCTGGCTAAAAATCTGGG
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GGTCCCAGAGACGCCAGTCAGCAGAGGAACTCCCTGCCAAGCTCATGCCAGAGCCCTCCGAGGAACCCAC
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CTGGAGGTCCAGGTCTTGGCAGATCAGTATGAAACGCGGTGTCCTGTTTCGGACGGGACTGTTCCATTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR223495 representing NM_133904
 Red=Cloning site Green=Tags(s)

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 DRKQAHIKRQLMTSFI LGLSDDNSDEDP SAGSFQNSSRKSSRASLGTLSQEAALNTSDPESHAPTRPS
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 RDEFAEDRIYRHLEPALAFQLELSRMRNFDL TAVPCANHKMHL YLGA AKVKEGLEVT DHRFFIRAIIRHS
 DLITKEASFEYLQNEGERLLLEAMDELEVA FNNTSVRTDCNHIFLNFVPTVIMDPLKIEESVRDMVMRYG
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 ADPANL DSEAKIIQQAGQVWFPDSAYKTAQVIRDFNKERLPLMIFANWRGFSGGMKDMEYQMLKFGAYIV
 DGLRLEYEQPILYIPPCAELRGGSWVLDSTINPLCIEMYADKESRGGVLEPEGTVEIKFRKKDLVKTIR
 RIDPVCKKLVGQLGKAQLPDKDRKELEGQLKAREELLLPIYHQVAVQFADLHDTPGHMLEKGIISDVLEW
 KTARTFFYWRLLRLLLEAQVKQEILRASPELNHEHTQSM LRRWFVETEGAVKAYLWDSNQVVVQWLEQHW
 SAKDGLRSTIRENINYLKRDSVLKTIQSLVQEHPEVIMDCVAYLSQHLTPAERIQVAQLLSTTESPASS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9010_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_133904

ORF Size: 7347 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_133904.1](#), [NM_133904.2](#), [NP_598665.2](#)

RefSeq Size: 8497 bp

RefSeq ORF: 7347 bp

Locus ID: 100705

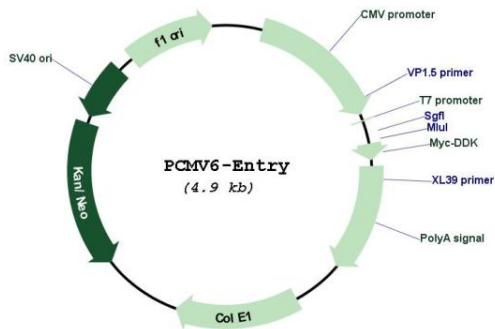
UniProt ID: [E9Q4Z2](#)

Cytogenetics: 5 F

MW: 276.2 kDa

Gene Summary: Catalyzes the ATP-dependent carboxylation of acetyl-CoA to malonyl-CoA (By similarity). Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase (By similarity). Involved in inhibition of fatty acid and glucose oxidation and enhancement of fat storage (PubMed:11283375, PubMed:12920182, PubMed:15677334, PubMed:18487439, PubMed:22362781). May play a role in regulation of mitochondrial fatty acid oxidation through malonyl-CoA-dependent inhibition of carnitine palmitoyltransferase 1 (PubMed:10677481).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223495