

Product datasheet for RC215305

ACACB (NM_001093) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ACACB (NM_001093) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ACACB
Synonyms: ACC-beta; ACC2; ACCB; HACC275
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC215305 representing NM_001093
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCTTGCTTCTTTGTCTATCTTGCTGATTTCTCCTGTCTGACCTTTCTGGTTAAAAATCTGGG
 GGAAAAATGACGGACTCCAAGCCGATCACCAAGAGTAAATCAGAAGCAAACCTCATCCCGAGCCAGGAGCC
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Protein Sequence: >RC215305 representing NM_001093
 Red=Cloning site Green=Tags(s)

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 CRAIGIGAYLVRGQRV
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 SDKDRKDEGRLKARE
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 VDCVIYLSQHISPAERAQV
 VHLLS TMDSPAST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4379_d10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

ACCN: NM_001093

ORF Size: 7374 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_001093.4](#)
RefSeq Size: 9251 bp

RefSeq ORF: 7377 bp

Locus ID: 32

UniProt ID: [O00763](#)
Cytogenetics: 12q24.11

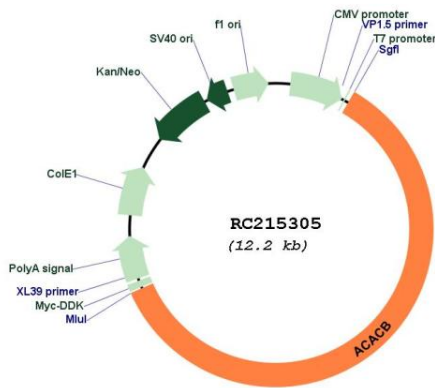
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Fatty acid biosynthesis, Insulin signaling pathway, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

MW: 276.4 kDa

Gene Summary: Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. ACC-beta is thought to control fatty acid oxidation by means of the ability of malonyl-CoA to inhibit carnitine-palmitoyl-CoA transferase I, the rate-limiting step in fatty acid uptake and oxidation by mitochondria. ACC-beta may be involved in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. There is evidence for the presence of two ACC-beta isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215305