

## Product datasheet for MR216287

### Acaca (NM\_133360) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acaca (NM_133360) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acaca
Synonyms:	A530025K05Rik; Acac; Acc1; Gm738
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216287 representing NM_133360 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGAACCATCTCCGTTGGCCAAAACCTCTGGAGCTAAACCAGCACTCCCGATTGATAATTGGGTCTG  
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Protein Sequence: >MR216287 representing NM\_133360  
 Red=Cloning site Green=Tags(s)

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 EIMQPWAQTVVVGARLGGIPVGVVAVETRTVELSIPADPANLDSEAKIIQQAGQVWFPDSAFKTYQAIK  
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 PEVAMDSIVHMTQHSPTQRAEVVIRLSTMDSPST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9033\\_d06.zip](https://cdn.origene.com/chromatograms/mm9033_d06.zip)

Restriction Sites: SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_133360

**ORF Size:** 7035 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\\_133360.2](#), [NP\\_579938.2](#)

**RefSeq Size:** 9054 bp

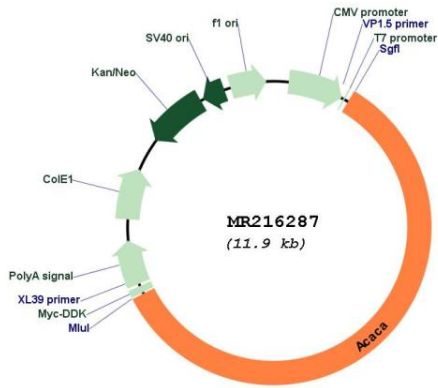
**RefSeq ORF:** 7038 bp

**Locus ID:** 107476

**UniProt ID:** [Q5SWU9](#)

**Cytogenetics:** 11 C  
**MW:** 265.7 kDa  
**Gene Summary:** Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR216287