

Product datasheet for MR206476

Acads (NM_007383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acads (NM_007383) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acads
Synonyms:	Al196007; Bcd-1; Bcd1; Hdlq; Hdlq8; SC; SCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206476 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCGCTTGCTCGCCGGGCGCCGTTGGCCCTCTCCGTAGAGCTCTCGGTGTTGGGACTGGCGAC
GGTTACACACTGTTTACCAGTCTGTGGAGCTGCCTGAGACACACCAGATGTTGCGTCAGACATGCCGTGA
CTTTGCCGAGAAGGAGTTGGTCCCCATTGCGGCCAGCTGGACAGGGAGCATCTTCCCCACAGCTCAG
GTTAAGAAGATGGGTGAGCTCGGCTGCTGGCCATGGATGTGCCAGAGGAGCTGAGTGGTGCAGGCTTGG
ATTACCTGGCCTACTCCATCGCCCTGGAGGAGATCAGCCGTGCCCTCCACGGGAGTTATCATGAG
CGTCAACAATTCTCTACTTGGGACCCATTCTGAAGTTTGGATCCGCACAGCAGAAGCAACAGTGGATC
ACCCCTTTCACCAATGGTGACAAAATCGGCTGTTTTGCCCTCAGTGAGCCAGGCAATGGCAGTGATGCTG
GAGCCGCTTCCACCAGTCCCGGGAAGAGGGTGACTCATGGGTCTCAACGGCACCAAAGCTTGGATCAC
CAACTCCTGGGAGGCTTCCGCCACGGTGGTATTTGCCAGCACAGACAGTCCCGGAGAAAGGATATC
AGTGCCTTCTGGTCCCATGCCAATCCTGGGCTCACGCTGGGCAAGAAGGAAGACAAGCTGGGCATCC
GGGCTCCTCCACAGCTAACCTCATCTTTGAGGACTGCCGGATCCCAAGGAGAACCTGCTTGGGGAGCC
GGCATCGCCAGGCTCCCTGGATTGTGCTGTGAAGTATGCCGAGAACCAGCAATGCCTTTGGGGACCCG
TCACCAAGCTCCAAAATATCCAGTTCAAGCTGGCAGACATGGCCCTGGCCCTGGAGAGTGCCCGCTGCT
GACCTGGCGTGCTGCCATGTTGAAAGACAACAAGAAACCTTTACCAAGGAGTCCGCCATGGCCAAACTG
GCTGCATCGGAGGCTGCAACCGCCATTAGCCACCAGGCCATCCAGATCCTGGCGGCATGGGGTATGTGA
CAGAGATGCCGGCTGAGCGGTAACCGAGATGCCCGCATCACTGAGATCTACGAAGGGACCAGCGAAAT
CCAGAGACTGGTATCGCTGGGCATCTGCTCCGGAGCTACCGGAGC

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206476 protein sequence
 Red=Cloning site Green=Tags(s)

MAAALLARARGPLRRALGVRDWRRLHTVYQSVLPEHQMLRQTCRDFAEKELVPIAAQLDREHLFPTAQ
 VKKMGELGLLAMDVPEELSGAGLDYLAYSIALEEISRACASTGVIMSVNNSLYLGPILKFGSAQQKQWI
 TPFTNGDKIGCFALSEPGNGSDAGAASTTAREEGDSWVLNGTKAWITNSWEASATVVFASDTRSRQNKGI
 SAFLVPMPTPGLTLGKKEDKLGIRASSTANLIFEDCRIPKENLLGEPGMGFKIAMQTLDMGRIGIASQAL
 GIAQASLDCAVKYAENRNFAPLTKLQNIQFLADMALALE SARLLTWRAAMLKDNKKPFTKESAMAKL
 AASEAATAISHQAIQILGGMGYVTEPAERYRDARITEIYEGTSEIQRQVIAGHLLRSYRS

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_007383

ORF Size: 1239 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_007383.3](#)

RefSeq Size: 1881 bp

RefSeq ORF: 1239 bp

Locus ID: 11409

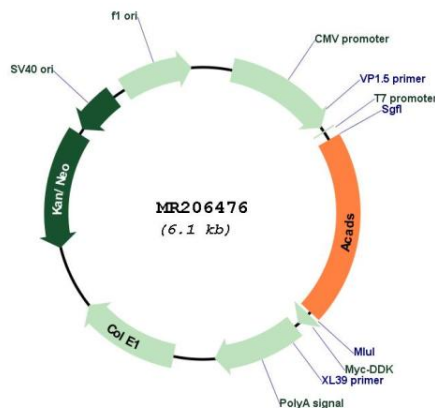
UniProt ID: [Q07417](#)

Cytogenetics: 5 F

MW: 44.9 kDa

Gene Summary: This gene encodes a homotetrameric mitochondrial flavoprotein and is a member of the acyl-CoA dehydrogenase family. Members of this family catalyze the first step of fatty acid beta-oxidation, forming a C2-C3 trans-double bond in a FAD-dependent reaction. As beta-oxidation cycles through its four steps, each member of the Acyl-CoA dehydrogenase family works at an optimum fatty acid chain-length. This enzyme has its optimum at C(four)-CoA. In mice, deficiency of this gene has been linked to cold sensitivity and increased high-density lipoprotein levels. [provided by RefSeq, Nov 2012]

Product images:



Circular map for MR206476