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Product datasheet for MG206476

Acads (NM_007383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acads (NM_007383) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acads
Synonyms:	AI196007; Bcd-1; Bcd1; Hdlq; Hdlq8; SC; SCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206476 representing NM_007383
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCCGCCTTGCTCGCCCGGGCCCGTGGCCCTCTCCGTAGAGCTCTCGGTGTTCGGGACTGGCGAC
GGTTACACACTGTTTACCAGTCTGTGGAGCTGCCTGAGACACACCAGATGTTGCGTCAGACATGCCGTGA
CTTTGCCGAGAAGGAGTTGGTCCCCATTGCGGCCCAGCTGGACAGGGAGCATCTCTTCCCCACAGCTCAG
GTTAAGAAGATGGGTGAGCTCGGGCTGCTGGCCATGGATGTGCCAGAGGAGCTGAGTGGTGCAGGCTTGG
ATTACCTGGCCTACTCCATCGCCCTGGAGGAGATCAGCCGTGCCTGCGCCTCCACGGGAGTTATCATGAG
CGTCAACAATTCTCTCTACTTGGGACCCATTCTGAAGTTTGGATCCGCACAGCAGAAGCAACAGTGGATC
ACCCCTTTCACCAATGGTGACAAAATCGGCTGTTTTGCCCTCAGTGAGCCAGGCAATGGCAGTGATGCTG
GAGCCGCTTCCACCACTGCCCGGGAAGAGGGTGACTCATGGGTCCTCAACGGCACCAAAGCTTGGATCAC
CAACTCCTGGGAGGCTTCCGCCACGGTGGTATTTGCCAGCACAGACAGGTCCCGGCAGAACAAGGGTATC
AGTGCCTTCCTGGTTCCCATGCCAACTCCTGGGCTCACGCTGGGCAAGAAGGAAGACAAGCTGGGCATCC
GGGCCTCCTCCACAGCTAACCTCATCTTTGAGGACTGCCGGATCCCCAAGGAGAACCTGCTTGGGGAGCC
TGGGATGGGCTTCAAAATAGCCATGCAAACCCTGGACATGGGTCGCATTGGCATCGCCTCCCAGGCCCTG
GGCATCGCCCAGGCCTCCCTGGATTGTGCTGTGAAGTATGCCGAGAACCGCAATGCCTTTGGGGCACCGC
TCACCAAGCTCCAAAATATCCAGTTCAAGCTGGCAGACATGGCCCTGGCCCTGGAGAGTGCCCGCCTGCT
GACCTGGCGTGCTGCCATGTTGAAAGACAACAAGAAACCTTTCACCAAGGAGTCCGCCATGGCCAAACTG
GCTGCATCGGAGGCTGCAACCGCCATTAGCCACCAGGCCATCCAGATCCTGGGCGGCATGGGGTATGTGA
CAGAGATGCCGGCTGAGCGGTACTACCGAGATGCCCGCATCACTGAGATCTACGAAGGGACCAGCGAAAT
CCAGAGACTGGTGATCGCTGGGCATCTGCTCCGGAGCTACCGGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

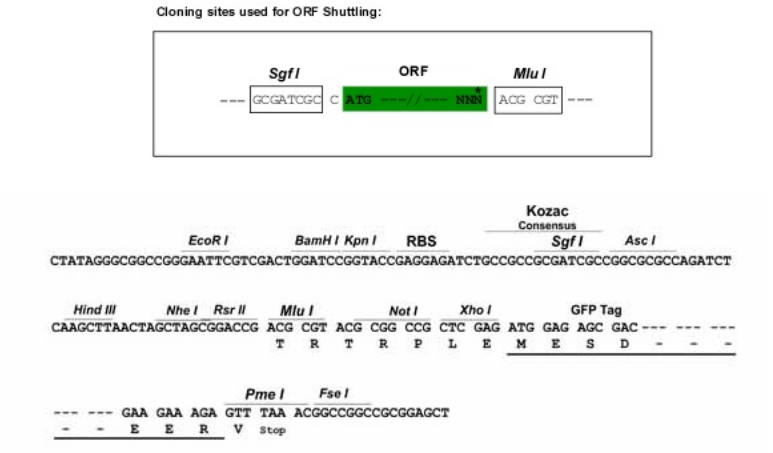
>MG206476 representing NM_007383
Red=Cloning site Green=Tags(s)

MAAALLARARGPLRRALGVRDWRRLHTVYQSVELPETHQMLRQTCRDFAEKELVPIAAQLDREHLFPTAQ
VKKMGELGLLAMDVPEELSGAGLDYLAYSIALEEISRACASTGVIMSVNNSLYLGPILKFGSAQQKQQWI
TPFTNGDKIGCFALSEPGNGSDAGAASTTAREEGDSWVLNGTKAWITNSWEASATVVFASTDRSRQNKGI
SAFLVPMPTPGLTLGKKEDKLGIRASSTANLIFEDCRIPKENLLGEPGMGFKIAMQTLDMGRIGIASQAL
GIAQASLDCAVKYAENRNAFGAPLTKLQNIQFKLADMALALESARLLTWRAAMLKDNKKPFTKESAMAKL
AASEAATAISHQAIQILGGMGYVTEMPAERYYRDARITEIYEGTSEIQRLVIAGHLLRSYRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007383

ORF Size: 1236 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).

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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_007383.3

RefSeq Size: 1880 bp

RefSeq ORF: 1239 bp

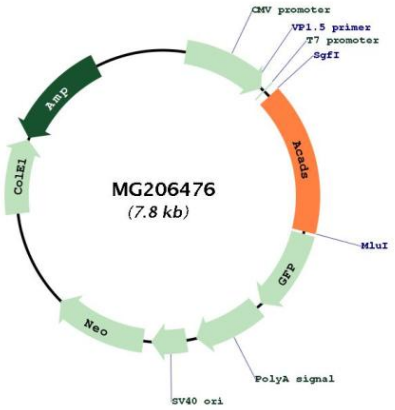
Locus ID: 11409

UniProt ID: Q07417

Cytogenetics: 5 F

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 MG206476

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