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Product datasheet for MR206704

Acadm (NM_007382) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acadm (NM_007382) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acadm
Synonyms:	AU018656; MCA; MCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR206704 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCGGCGTTCCGCAGAGGCTGCAGGGTCCTGAGAAGTGTTTCTCATTTTGAGTGTCGAACACAAC
ACTCGAAAGCGGCTCACAAGCAGGAGCCCGGATTAGGGTTTAGTTTTGAGTTGACGGAACAGCAGAAAGA
GTTTCAAGCAACTGCCCGCAAGTTTGCCAGAGAGGAGATTATCCCCGTCGCCCCGGAATATGACAAAAGC
GGGGAGTACCCGTTCCCTCTCATCAAAAGAGCCTGGGAACTCGGCTTGATCAACGCGCACATTCCGGAAA
GTTGCGGTGGTCTTGGCCTGGGAACGTTCGATGCTTGTTTAATTACCGAAGAGTTGGCGTATGGGTGTAC
AGGGGTGCAAACTGCTATTGAAGCAAATTCTTTGGGGCAAATGCCTGTGATTCTTGCTGGAAATGATCAA
CAAAAAAAGAAGTATTTGGGGAGGATGACGGAGCAGCCAATGATGTGTGCTTACTGTGTGACAGAGCCCT
CCGCAGGCTCTGATGTGGCGGCCATTAAGACCAAAGCAGAGAAGAAGGGTGACGAGTATGTTATCAACGG
CCAGAAGATGTGGATAACCAACGGGGGAAAGGCCAACTGGTATTTCTTGTTGGCGCGTTCTAACCCAGAT
CCTAAAGTACCCGCTAGTAAAGCCTTTACTGGATTCATTGTGGAAGCCGACACCCCGGGAATACATATTG
GAAAAAAGGAACTAAACATGGGCCAGCGATGCTCTGACACCAGAGGAATTGCTTTCGAAGACGTCAGAGT
GCCTAAGGAAAATGTGTTAATCGGTGAAGGAGCAGGTTTCAAGATCGCAATGGGTGCTTTTGATAGAACC
AGACCTACAGTCGCAGCTGGCGCTGTCGGGCTAGCCCAGAGAGCTCTGGACGAAGCCACGAAGTATGCCC
TGGATAGGAAGACATTTGGAAAGCTGCTAGTGGAGCACCAAGGAGTTTCATTTCTGCTCGCAGAAATGGC
GATGAAGGTTGAACTCGCTAGGCTCAGTTACCAGAGAGCAGCCTGGGAGGTTGACTCCGGTCGCCGGAAC
ACTTACTATGCCTCGATTGCAAAGGCCTGTGCTGGAGACATTGCCAATCAGCTAGCCACTGACGCCGTGC
AGATTTTCGGAGGCTATGGATTCAACACAGAGTACCCTGTGGAGAAGCTGATGAGGGACGCCAAGATCTA
TCAGATTTATGAAGGTACTGCACAAATTCAGAGGCTGATCATAGCTCGTGAGCACATTGAAAAGTATAAA
AAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

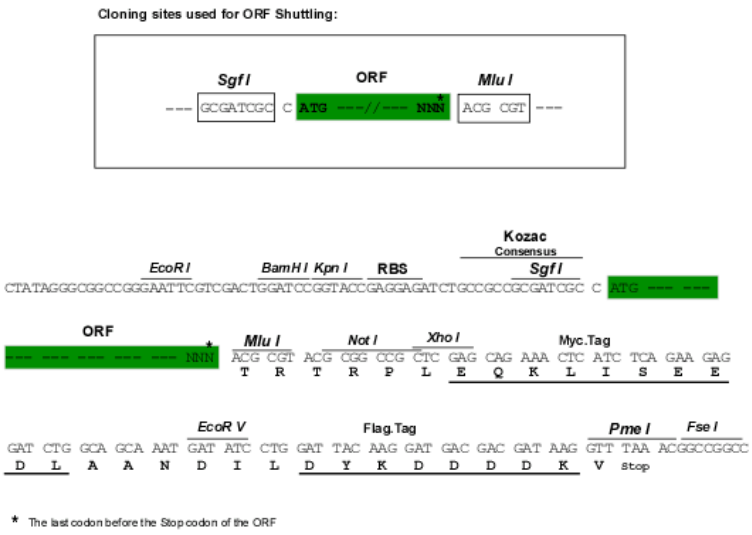
>MR206704 protein sequence
Red=Cloning site Green=Tags(s)

MAAAFRRGCRVLRSVSHFECRTQHSKAAHKQEPGLGFSFELTEQQKEFQATARKFAREEIIPVAPEYDKS
GEYPFPLIKRAWELGLINAHIPESCGGLGLGTFDACLITEELAYGCTGVQTAIEANSLGQMPVILAGNDQ
QKKKYLGRMTEQPMMCAYCVTEPSAGSDVAAIKTKAEKKGDEYVINGQKMWITNGGKANWYFLLARSNPD
PKVPASKAFTGFIVEADTPGIHIGKKELNMGQRCSDTRGIAFEDVRVPKENVLIGEGAGFKIAMGAFDRT
RPTVAAGAVGLAQRALDEATKYALDRKTFGKLLVEHQGVSFLLAEMAMKVELARLSYQRAAWEVDSGRRN
TYYASIAKACAGDIANQLATDAVQIFGGYGFNTEYPVEKLMRDAKIYQIYEGTAQIQRLIIAREHIEKYK
N

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007382

ORF Size: 1266 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_007382.1, NM_007382.2, NM_007382.3, NM_007382.4, NM_007382.5, NP_031408.1

RefSeq Size: 2062 bp

RefSeq ORF: 1266 bp

Locus ID: 11364

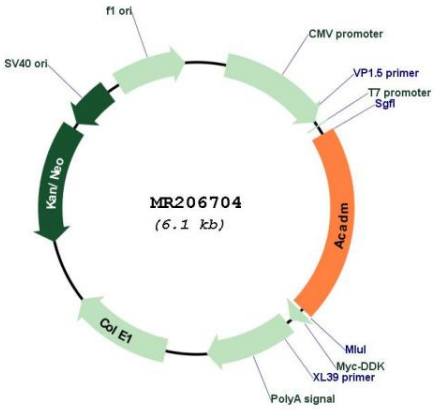
UniProt ID: P45952

Cytogenetics: 3 78.77 cM

MW: 46.4 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 length between C6- and C12-acylCoA. In mice, deficiency of this gene can cause neonatal mortality as well as fasting and cold intolerance. This gene has multiple, intronless pseudogenes. [provided by RefSeq, Nov 2012]

Product images:



Circular map for MR206704