

## Product datasheet for **MG206704**

### Acadm (NM\_007382) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acadm (NM_007382) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acadm
Synonyms:	AU018656; MCA; MCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206704 representing NM_007382 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCGCGTTCCGCAGAGGCTGCAGGGTCTGAGAAGTGTTCATTTTGAGTGTGCAACACAAC  
ACTCGAAAGCGGCTCACAAGCAGGAGCCCGATTAGGGTTTAGTTTTGAGTTGACGGAACAGCAGAAAGA  
GTTTCAAGCAACTGCCCGCAAGTTGCCAGAGAGGAGATTATCCCGTCGCCCGGAATATGACAAAAGC  
GGGGAGTACCCGTTCCCTCTCATCAAAGAGCCTGGGAACCTCGGCTTGATCAACGCGCACATTCGGAAA  
GTTGCGGTGGTCTTGGCCTGGGAACGTTGATGCTTGTAAATTACCGAAGAGTTGGCGTATGGGTGTAC  
AGGGGTGCAAACTGCTATTGAAGCAAATCTTTGGGGCAAATGCCTGTGATTCTTGCTGGAAATGATCAA  
CAAAAAAGAAGTATTTGGGGAGGATGACGAGAGCAATGATGTGTGCTTACTGTGTGACAGAGCCCT  
CCGAGGCTCTGATGTGGCGGCCATTAAGACCAAAGCAGAGAAGAAGGGTGACGAGTATGTTATCAACGG  
CCAGAAGATGTGGATAACCAACGGGGAAAGGCCAACTGGTATTTCTTGTGGCGGTTCTAACCCAGAT  
CCTAAAGTACCCGCTAGTAAAGCCTTTACTGGATTCATTGTGGAAGCCGACCCCGGAATACATATTG  
GAAAAAGGAACATAACATGGGCCAGCGATGCTCTGACACCAGAGGAATTGCTTTCGAAGACGTGAGAGT  
GCCTAAGGAAAATGTGTTAATCGGTGAAGGAGCAGGTTTCAAGATCGCAATGGGTGCTTTTGATAGAACC  
AGACCTACAGTCGAGCTGGCGCTGTCGGCTAGCCAGAGAGCTCTGGACGAAGCCACGAAGTATGCC  
TGGATAGGAAGACATTTGGAAAGCTGCTAGTGGAGCACCAAGGAGTTTCATTTCTGCTCGCAGAAAATGGC  
GATGAAGTTGAACTCGCTAGGCTCAGTTACCAGAGAGCAGCCTGGGAGTTGACTCCGGTCCGCCGAAC  
ACTTACTATGCCTCGATTGCAAAGGCCTGTGCTGGAGACATTGCCAATCAGCTAGCCACTGACGCCGTGC  
AGATTTTCGGAGGCTATGGATTCAACACAGAGTACCCTGTGGAGAAGCTGATGAGGGACGCCAAGATCTA  
TCAGATTTATGAAGTACTGCACAAATTCAGAGGCTGATCATAGCTCGTGAGCACATTGAAAAGTATAAA  
AAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206704 representing NM\_007382  
 Red=Cloning site Green=Tags(s)

MAAAFRRGCRVLRVSVSHFECRTQHSKAAHKQEPGLGFSFELTEQQKEFQATARKFAREEIIPVAPEYDKS  
 GEYFPFLIKRAWELGLINAHIPESCGGLGLGTFDACLI TEELAYGCTGVQTAIEANSLGQMPVILAGNDQ  
 QKKKYLGRMTEQPMMCAYCVTEPSAGSDVAAIKTKAEKKGDEYVINGQKMWITNGGKANWYFLLARSNPD  
 PKVPASKAFTGFIVEADTPGIHIGKKELNMGQRCSDRGIAFEDVRVPKENVLI GEGAGFKIAMGAFDRT  
 RPTVAAGAVGLAQRALDEATKYALDRKTFGKLLVEHQVSFLLAEMAMKVELARLSYQRAAWEVDSGRRN  
 TYYASIAKACAGDIANQLATDAVQIFGGYGFNTEYPVEKLMRDAKIYQIYEGTAQIQRLIIAREHIEKYK  
 N

TRTRPLE - GFP Tag - V

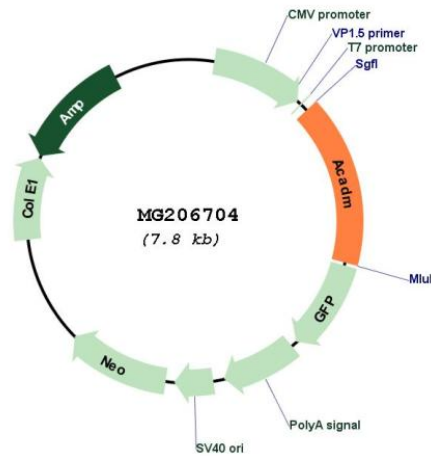
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_007382

<b>ORF Size:</b>	1263 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007382.1</a> , <a href="#">NP_031408.1</a>
<b>RefSeq Size:</b>	1846 bp
<b>RefSeq ORF:</b>	1266 bp
<b>Locus ID:</b>	11364
<b>UniProt ID:</b>	<a href="#">P45952</a>
<b>Cytogenetics:</b>	3 78.77 cM
<b>Gene Summary:</b>	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]