

## Product datasheet for RR209147

### Acadm (NM\_016986) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acadm (NM_016986) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acadm
Synonyms:	MCAD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209147 representing NM_016986 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCAGCAGCGCTCCGAGAGGCTACAAGGTCTGAGAAGTGTCTCTCATTTTGTAGTGTGAGCACAAC  
ACACAAAACCATCTCTCAAGCAGGAGCCGGACTAGGGTTTAGCTTCGAGTTGACGGAGCAGCAGAAAGA  
GTTTCAAACAATTGCTCGGAAGTTTGCCAGAGAGGAAATAATCCCGGTCGCCCCAGACTACGATAAAAGC  
GGGAATACCCGTTCCCTCTCATCAAGAGAGCCTGGGAACCTGGGTTGATCAACACACACATTCCGAGA  
GTTGTGGTGGTCTTGGCCTGGGAACCTTTGATGCGTGTTAATTACGGAAGAGTTGGCATATGGGTGAC  
AGGGGTGCAGACTGCTATTGAAGCAAATCTTTGGGGCAAATGCCTGTGATTATTGCTGGAAATGATCAA  
CAGAAGAAGAAGTATTTGGGGAGGATGACGGAGCAGCTGATGATGTGTGCCTACTGCGTGACAGAACCTT  
CAGCAGGCTCTGATGTGGCGGCATTAAGACCAAAGCAGAGAAGAAGGGTGAATATGTCATCAATGG  
CCAGAAGATGTGGATAACCAACGGGGAAAGGCCAACTGGTATTTTGTATTGACGCGATCTAACCCAGAT  
CCTAAAGTACCTGCTAGTAAAGCCTTACCAGGATTCATCGTGGAGGCCGACACCCCGGAATACACATCG  
GAAAAAAGGAACATAACATGGGTCAGCGGTCTCTGACACCAGGAATCACCTTCGAAGATGTCAGAGT  
GCCTAAGGAAAAATGTGTTAATTGGTGAAGGAGCAGGTTTCAAGATTGCAATGGGGGCTTTTGATAGAACC  
AGGCCGACGCTCGCAGCTGGTGTGTGCGGCTAGCCAGAGAGCCTGGACGAAGCTACTAAGTATGCC  
TGGACAGGAAAACATTTGAAAGCTGCTAGTGGAGCACCAGGAGTTTCAATTTCTGCTCGCAGAAATGGC  
GATGAAAGTTGAACTGGCCAGACTCAGTTACCAGCAGCAGCCTGGGAGTTGACTCCGCGCCCGGAAC  
ACGTAATTTGCCTCTATTGCGAAGGCTTTGCTGGAGATATTGCCAACAGCTCGCTACCGATGCTGTGC  
AGATTTTCGGAGGCTATGGATTAACACTGAGTACCCAGTAGAAAAGCTGATGCGGGACGCCAAGATCTA  
TCAGATTTACGAAGGTAAGTGCACAAATTCAGAGGCTGATCATAGCTCGTGAGCACATTGAAAAGTATAAA  
AAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR209147 representing NM\_016986  
 Red=Cloning site Green=Tags(s)

MAAALRRGYKVLRSVSHFECRAQHTKPSLKQEPGLGFSFELTEQQKEFQTIARKFAREEIIPVAPDYDKS  
 GEYFPPLIKRAWELGLINTHIPESCGGLGLGTFDACLI TEELAYGCTGVQTAIEANSLGQMPVIIAGNDQ  
 QKKKYLGRMTEQLMCCAYCVTEPSAGSDVAGIKTKAEKKGDEYVINGQKMWITNGGKANWYFVL TRSNPD  
 PKVPASKAFTGFIVEADTPGIHIGKKELNMGQRCSDRGITFEDVRVPKENVLI GEGAGFKIAMGAFDRT  
 RPTVAAGAVGLAQRALDEATKYALDRKTFGKLLVEHQGSFLLAEMAMKVELARLSYQRAAWEVDSGRRN  
 TYFASIAKAFAGDIANQLATDAVQIFGGYGFNTEYPVEKLMRDAKIYQIYEGTAIQRLIIAREHIEKYK  
 N

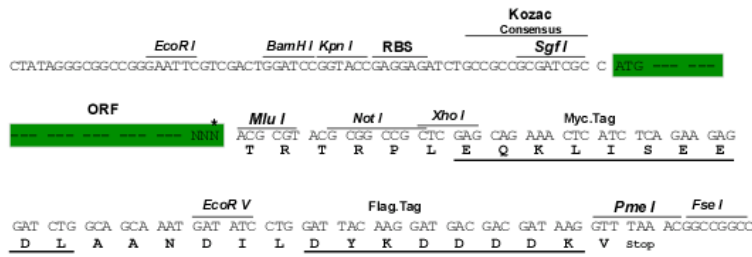
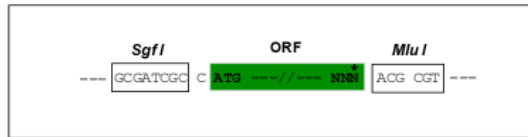
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

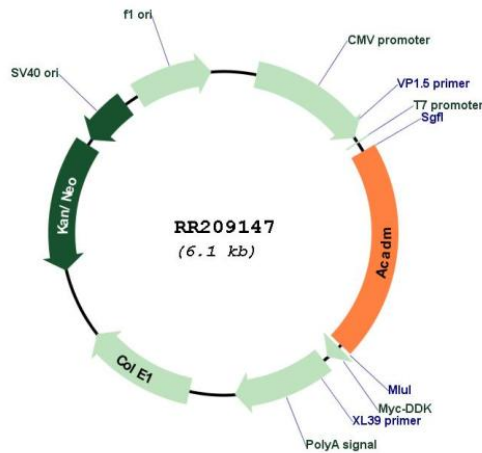
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM\_016986

<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_016986.2</a> , <a href="#">NP_058682.2</a>
<b>RefSeq Size:</b>	1954 bp
<b>RefSeq ORF:</b>	1266 bp
<b>Locus ID:</b>	24158
<b>UniProt ID:</b>	<a href="#">P08503</a>
<b>Cytogenetics:</b>	2q45
<b>MW:</b>	46.6 kDa
<b>Gene Summary:</b>	catalyzes the alpha, beta-dehydrogenation of acyl-CoA esters in fatty acid metabolism [RGD, Feb 2006]