

## Product datasheet for RR201787

### Acadl (NM\_012819) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acadl (NM_012819) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acadl
Synonyms:	ACODA; LCAD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201787 representing NM_012819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCGCGCTGCTCCTCCGCTCCCTTCGTGTCTGAGCGCCGCTCGGCGACACTCCCGCCGCCCT  
CCGCCGATGTTCTCATTCTGGAGCAGAAGCACGTCTAGAACTCCTTCTGCTAAAAATTAAGTAT  
TGAATCAGAAGAATCTTTCTCAGAGCATGACATTTCCGGGAGAGTGAAGGAATTTTTCAAGAA  
GAAGTGATTCCTACCACGAAGAATGGGAGAAAGCCGGAGAAGTGAAGTAGAGAGCTCTGGAAAAAGCTG  
GCAAGCAAGGCTGCTTGGCATCAACATTGCAGAGAAACATGGCGGCATCGGTGGGGACTTGTGTCAAC  
AGCAGTACTTGGGAAGAGCAAGCATACTCAAATGCACAGGCCCTGGTTTCAGCCTCCATTAGATATT  
GTCATGCCCTATATTGCAAATACGGCACAAAAGAACAGATCGAGCAGTTTATCCCCAGATGACGGCGG  
GCAAGTGATTGGTGCCATAGCCATGACAGAGCCTGGGGCTGGAAGTGACTTACAAGGAGTAAGAACAAA  
TGCCAAAAGGTCTGGGAGTGATTGGATTCTCAATGGAAGCAAGGTGTTCACTAATGGCTGGTTAAGT  
GATCTCGTGATCGTAGTGCCGTCACCAATCGTGAAGCTCGATCGCCGCTCATGGCATTAGCCTCTTTT  
TGGTGGAGAATGGAATGAAAGGATTTATTAAGGGCAAGAAGCTACATAAGATGGGAATGAAAGCCAGGA  
CACAGCAGAACTATTCTTTGAAGATGTTGATTGCCAGCTAGTGCCCTACTTGGGGAAGAGAATAAAGGC  
TTCTACTACCTCATGCAAGAGCTCCACAGGAAAGGCTTTTAATTGCTGATTTGGCAATTTCTGCCTGTG  
AGTTTCATGTTGAAGAAACCAGGAACACTCGTGAGACAAAAGAAAGGCTTTTGGAAAAACAGTCGCACACAT  
CCAGACTGTGCAGCACAACACTAGCAGAATTGAAGACGAACATAGTGTTACCAGAGCTTTTGTGGACAGC  
TGCCTACAGCTGCATGAAACCAACGTCTGGACTCCGCCCTCCGCTTCCATGGCGAAATATTGGGCATCTG  
AATTACAAAACACTGTAGCTTATCAGTGTGTTCAACTCCATGGAGGCTGGGGTTACATGTGGGAATACCC  
GATTGCAAAGCCTACGTGGATGCTCGAGTTCAGCCGATCTACGGTGGTACCAACGAAATCATGAAAGAG  
CTGATCGCAAGACAGATCGTCAGTGACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR201787 representing NM\_012819  
Red=Cloning site Green=Tags(s)

MAARLLLRSLRVLRSARSATLPPPSARCSHSGAEARLETSAKLLTDIGIRRFSSSEHDIFRESVSRKFFQE  
 EVIPYHEEWEKAGEVSRELWEKAGKQGLLGINIAEKHGGIGDDLSTAVTWEEQAYSNCTGPGFSLHSDI  
 VMPYIANYGTKEQIEQFIPQMTAGKCIGAIAMTEPGAGSDLQGVRTNAKRSGSDWILNGSKVFITNGWLS  
 DLVIVVAVTNREARSPAHGISLFLVENGKMGFIKGGKLLHKMGMAQDTAELFFEDVRLPASALLGEENKG  
 FYYLMQELPQERLLIADLAI SACEFMFEETRNYVRQRKAFGKTVAHIQTVQHKLAELKTNICVTRAFVDS  
 CLQLHETKRLDSASASMAKYWASELQNTVAYQCQLHGGWGYMWEYPIAKAYVDARVQPIYGGTNEIMKE  
 LIARQIVSDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

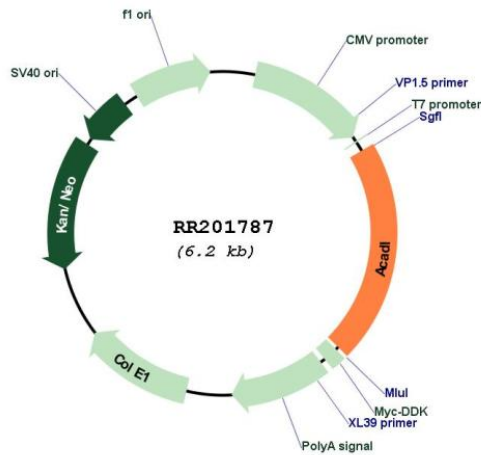
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_012819

<b>ORF Size:</b>	1290 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_012819.1</a> , <a href="#">NP_036951.1</a>
<b>RefSeq Size:</b>	1451 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	25287
<b>UniProt ID:</b>	<a href="#">P15650</a>
<b>Cytogenetics:</b>	9q32
<b>MW:</b>	47.9 kDa
<b>Gene Summary:</b>	catalyzes the alpha, beta-dehydrogenation of acyl-CoA esters in fatty acid metabolism [RGD, Feb 2006]