

Product datasheet for **RR203012**

Acadvl (NM_012891) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acadvl (NM_012891) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acadvl
Synonyms:	VLCAD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR203012 representing NM_012891
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGTCGGCCCGGATGACCCCGAGTGTGGGGCGACAACCTGCTGCGGCTGGGGGCCGAAGCTCGCGGT
CTGCTGCCCTTCAGGGACAACCCCGGCCTACCTCTGCCAGCGACTTTATGCCAGTGAGGCCACTCAGGC
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GAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203012 representing NM_012891
 Red=Cloning site Green=Tags(s)

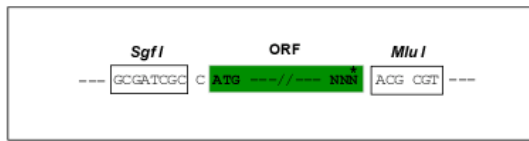
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 TMKAIIAKAVDHATNRTQFGDKIHNFGVIQEKLARMAILQYVTESMAYMLSANMDQGFQDFQIEAAISKI
 FGSEAAWKVTDECIQIMGGMGFMKEPGVERVLRDIRIFRIFEGTNDILRLFVALQGCMDKGKELTGLGNA
 LKNPLGNVGLLIGEASKQLRRRTGIGSGLSLSGIVHPELSRSGELAVQALEQFATVVEAKLMKHKKGI
 EQFLLQRLADGAIDLAMVVVLSRASRSLSEGYPYTAQHEKMLCDSWCIEAATRIENMASLQSNPQQQEL
 FRNFRSISKAMVENGLVTSNPLRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:
 Cloning Scheme:

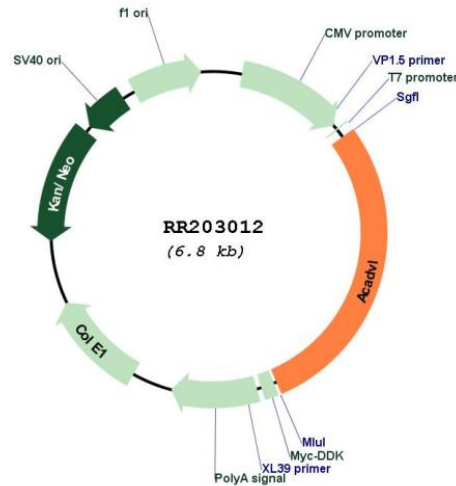
SgfI-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_012891

ORF Size: 1965 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_012891.2](#), [NP_037023.1](#)

RefSeq Size: 2115 bp
RefSeq ORF: 1968 bp
Locus ID: 25363
UniProt ID: [P45953](#)
Cytogenetics: 10q24
MW: 70.7 kDa
Gene Summary: catalyzes the beta-oxidation of long-chain fatty acids in mitochondrial fatty acid metabolism [RGD, Feb 2006]