Rat ACADM/MCAD Gene ORF cDNA clone in cloning vector



Catalog Number: RG81147-U

General Information

Gene :	acyl-CoA dehydrogenase, C-4 to C-12 straight chain
Official Symbol :	ACADM
Synonym :	MCAD
Source :	Rat
cDNA Size:	1266bp
RefSeq :	NM_016986.2
Plasmid:	cpUC19-ratAcadm

Description

Lot : Please refer to the label on the tube

Sequence Description :

Identical with the Gene Bank Ref. ID sequence except for the point mutations: 609A>G not causing the amino acid variation; 398T>C(V133A), 425A>G(K142R) and 458T>C(L153P).

Vector :

pUC19

Shipping carrier :

Each tube contains approximately 10 µg of lyophilized plasmid.

Storage :

The lyophilized plasmid can be stored at ambient temperature for three months.

Quality control :

The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

Sequencing primer list :

M13-47 :	5' GCCAGGGTTTTCCCAGTCACGAC 3'

RV-M : 5' GAGCGGATAACAATTTCACACAGG 3'

Other M13 primers can also be used as sequencing primers.

Plasmid Resuspension protocol

1.Centrifuge at $5,000 \times g$ for 5 min.

2.Carefully open the tube and add 100 μl 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 to concentrate the liquid at the bottom. Speed is less than $5000 \times g$. 5.Store the plasmid at -20 °C.

The plasmid is ready for:

- Restriction enzyme digestion
- PCR amplification
- E. coli transformation
- DNA sequencing

E.coli strains for transformation (recommended but not limited)

Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5 α and TOP10F $\dot{}$.

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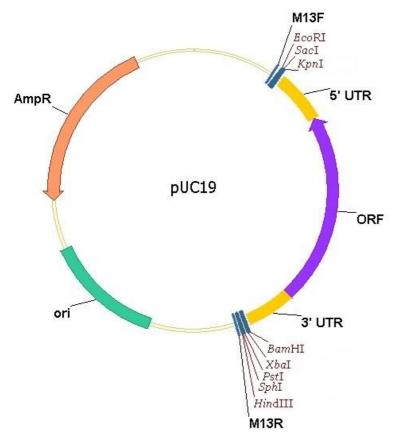
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Vector Information

pUC19 is a small, high-copy number E. coli plasmid cloning vector, of which multiple cloning sites as shown below. The molecule is a small double-stranded circle, 2686 base pairs in length. pUC19 encodes the N-terminal fragment of b-galactosidase (lacZa), which allows for blue/white colony screening (i.e., a-complementation), as well as a pUC origin of replication.

Physical Map of pUC19-ORF:



Notes: The full-length cDNA sequence included of 5' UTR and 3' UTR region. And UTR nucleotide is ranging from a few dozens to thousands of base pairs in size, Only ORF sequence is displayed, we strongly recommended only use gene specific primers for sequencing or PCR to subclone but not restriction enzyme digestion.