Mouse AARS Gene ORF cDNA clone in cloning vector

Catalog Number: **MG50384-M**

General Information

Gene : alanyl-tRNA synthetase

Official Symbol : **AARS**

Synonym : AI316495; C76919; sti

Source : Mouse

cDNA Size: 2907bp

RefSeq : NM_146217.4

Plasmid: pMD-mAARS

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: 864A/G,988C/A,1077C/T,1140G/A,1494G/A,1719G/A,1857T/C, 1959A/G,2082T/G,2166C/T,2619A/G,2673G/A,2688T/C not causing the amino acid variation.

Vector :

pMD18-T Simple

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.

Shipping carrier :

Each tube contains approximately 10 μg of lyophilized plasmid.

Storage :

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

Plasmid Resuspension protocol

1. Centrifuge at 5,000×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×g.
5. Store the plasmid at -20 ℃.

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, DH5α and TOP10F´.

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Sino Biological
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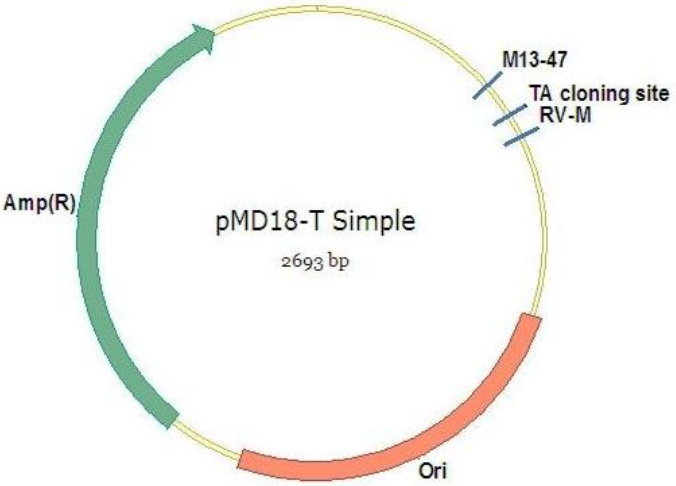
Vector Information

pMD18-T Simple Vector is a high-efficiency TA cloning vector constructed from pUC18, of which the initial multiple cloning sites (MCS) were destroyed. The pMD18-T Simple Vector is 2.6kb in size and contains the ampicillin resistance gene for selection. The coding sequence was inserted by TA cloning at site 425.

Notes: The direction of cDNA insertion into the TA-cloning vector is random, maybe forward or reverse. For insert orientation information, please feel free to contact us.

Physical Map of pMD18-T Simple (MCS destroyed) :



Sequencing Primer M13-47

5'-CGCCAGGGTTTTCCCAGTCACGACGTTGTAAAACGACGGCCAGTGCC

EcoR V

AAAGAAGCATGACGGCAAGTGGAC**GATATC**TCCAGAGGATCGCCGGGAA

Cloning Site:425

…gtggacgatT atctccaga…
…cacctgcta Ttagaggtct… (TA cloning Site)

CCGAGGACGAGTTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTT

Sequencing Primer RV-M

ATCCGCTC -3'