MERS-CoV S Gene ORF cDNA clone expression plasmid, C-HA tag

Catalog Number: VG40069-CY

General Information

Official Symbol: Spike

Synonym: coronavirus s1; coronavirus s2; coronavirus spike; cov spike; ncov RBD; ncov s1; ncov s2; ncov spike; RBD; S; s1; Spike RBD

Source: MERS-CoV

cDNA Size: 4104bp (cDNA Size= Gene + linker +Tags)

Plasmid: pCMV3- Spike(betacoronavirus2cEMC2012)-HA

Description

Lot: Please refer to the label on the tube

Sequence Description:

A number of silent mutations were introduced into the DNA sequence in order to increase its protein expression level in mammalian cell system. The translated amino acid sequence is identical with AFS89936.1.

Restriction site: KpnI + XbaI (6kb+4.1kb)

Vector: pCMV3- C-HA

Quality control:

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

Sequencing primer list:

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
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</thead>
<tbody>
<tr>
<td>pCMV3-F</td>
<td>5' CAGGTGTCCTCCTCAGGTCAGG 3'</td>
</tr>
<tr>
<td>pCDNA3-R</td>
<td>5' GGCAACTAGAAGGCAGTCGAGG 3'</td>
</tr>
<tr>
<td>Forward T7</td>
<td>5' TAATACGACTCATATAGGG 3'</td>
</tr>
<tr>
<td>Reverse BGH</td>
<td>5' TAGAAGGCACAGTCGAGG 3'</td>
</tr>
</tbody>
</table>

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−.
Vector Information

All of the pCMV vectors are designed for high-level stable and transient expression in mammalian hosts. High-level stable and non-replicative transient expression can be carried out in most mammalian cells. The vectors contain the following elements:

- Human enhanced cytomegalovirus immediate-early (CMV) promoter for high-level expression in a wide range of mammalian cells.
- Hygromycin resistance gene for selection of mammalian cell lines.
- A Kozak consensus sequence to enhance mammalian expression.

Physical Map of Plasmid:

Vector name: pCMV3-C-HA
Vector size: 6161bp
Vector Type: Mammalian Expression Vector
Expression Method: Constitutive, Stable / Transient
Promoter: CMV
Bacterial Resistance: Kanamycin
Selection In Cells: Hygromycin
Protein tag: HA

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