Human PRKAA1 ORF mammalian expression plasmid, C-HA tag

Catalog Number: HG11488-CY

General Information

Gene: protein kinase, AMP-activated, alpha 1 catalytic subunit

Official Symbol: PRKAA1

Synonym: AMPK, AMPKa1, MGC33776, MGC57364, PRKAA1

Source: Human

cDNA Size: 1680bp

RefSeq: NM_006251.5

Plasmid: pCMV3-PRKAA1-HA

Description

Lot: Please refer to the label on the tube

Sequence Description:

Identical with the Gene Bank Ref. ID sequence.

Restriction site: KpnI + XbaI (6kb + 1.72kb)

Vector: pCMV3-C-HA

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:

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV3-F</td>
<td>5' CAGGTGTCCACTCCCAGGTCAAAG 3'</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5' GGCAACTAGAAGGCACAGTCGAGG 3'</td>
</tr>
<tr>
<td>Forward T7</td>
<td>5' TAATACGACTCACTATAGGG 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
- **Antibiotic Resistance**: Kanamycin
- **Selection In Mammalian Cells**: Hygromycin
- **Protein Tag**: HA