Catalog Number: HG11159-UT

General Information

Gene: cytotoxic T-lymphocyte-associated protein 4
Official Symbol: CTLA4
Synonym: ALPS5; CD; CD152; CELIAC3; CTLA-4; GRD4; GSE; IDDM12
Source: Human
cDNA Size: 672bp
RefSeq: NM_005214.3
Plasmid: PCMV3-CTLA4

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 + 0.67kb)
Vector: pCMV3-untagged
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' CAGGTGTCCACTCCAGGTCGAAG 3'</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5' GGCAACTAGAGGCACAGTCGAGG 3'</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>Forward T7</td>
<td>5' TAATACGACTCACTATAGGG 3'</td>
</tr>
<tr>
<td>Reverse BGH</td>
<td>5' TAGAAGGCGACAGTCGAGG 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-.

Plasmid Resuspension protocol

1. Centrifuge at 5,000 \( \times g \) for 5 min.
2. Carefully open the tube and add 100 \( \mu l \) 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.

Shipping carrier:
Each tube contains approximately 10 \( \mu g \) of lyophilized plasmid.

Storage:
The lyophilized plasmid can be stored at ambient temperature for three months.
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-untagged
Vector Size: 6223bp
Vector Type: Mammalian Expression Vector
Expression Method: Constitutive, Stable / Transient
Promoter: CMV
Antibiotic Resistance: Ampicillin
Selection In Mammalian Cells: Hygromycin
Protein Tag: None