Human GAPDH ORF mammalian expression plasmid, N-Flag tag

Catalog Number:  HG10094-NF

General Information

Gene: glyceraldehyde-3-phosphate dehydrogenase
Official Symbol: GAPDH
Synonym: G3PD, GAPD, HEL-S-162eP
Source: Human
cDNA Size: 1008bp
RefSeq: AF261085.1
Plasmid: pCMV3-Flag-GAPDH

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: 420 T/C, 924 T/C not causing the amino acid variation.

Restriction site: KpnI + NotI (6kb + 1.06kb)

Vector: pCMV3-N-FLAG

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’ CAGGTGTCCACTCCAGGTCAAG 3’</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5’ GGCAACTAGAAGGCACAGTCGAGG 3’</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward T7</td>
<td>5’ TAATACGACTCATATAGGG 3’</td>
</tr>
<tr>
<td>ReverseBGH</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’.
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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-N-FLAG
---|---
Vector Size | 6098bp
Vector Type | Mammalian Expression Vector
Expression Method | Constitutive, Stable / Transient
Promoter | CMV
Antibiotic Resistance | Kanamycin
Selection In Mammalian Cells | Hygromycin
Protein Tag | FLAG