General Information

Gene: tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)
Official Symbol: TNFRSF14
Synonym: TR2, ATAR, HVEA, HVEM, LIGHTR
Source: Human
cDNA Size: 825bp
RefSeq: NM_003820.2
Plasmid: pCMV3-Myc-TNFRSF14

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 + 0.83kb)

Vector: pCMV3-SP-N-Myc

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>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>5’ CAGGTGTCCACTCCAGGTCCAAAG 3’</td>
<td>5’ GGCAACTAGAAGGCACAGTCGAGG 3’</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>5’ TAATACGACTCACTATAGGG 3’</td>
<td>5’ TAGAAGGCACAGTCGAGG 3’</td>
</tr>
</tbody>
</table>

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 °C.

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’.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.
Fax :+86-10-51029969 ● Tel:+86- 400-890-9989 ● http://www.sinobiological.com
Human HVEM / TNFRSF14 ORF mammalian expression plasmid, N-Myc tag

Catalog Number: HG10334-NM

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-SP-N-Myc
Vector Size: 6149bp
Vector Type: Mammalian Expression Vector
Expression Method: Constuitive, Stable / Transient
Promoter: CMV
Antibiotic Resistance: Kanamycin
Selection in Mammalian Cells: Hygromycin
Protein Tag: Myc
pCMV3-SP-N-Myc (suitable for secretary and membrane protein expression)

**Physical Map**

```
CMV promoter
Kan(R)
T7 primer
enhancer
T7 primer binding site
Kozak
Signal Peptide
N-Myc
linker
MCS
BGH reverse primer
Hygro(R)
SV40 early promoter
```

**Description**

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**Schematic of pCMV3-SP-N-Myc Multiple Cloning Sites**

pCMV3-SP-N-Myc is recommended for constructing the N-Myc tag secretary and membrane proteins expression vector which containing a naïve signal peptide. An universal signal peptide is used to instead the naïve signal peptide.