General Information

Gene: tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)
Official Symbol: TNFRSF14
Synonym: Atar, HveA, Hvem, Tnfrsf14, MGC123498, MGC123499, Tnfrsf14
Source: Mouse
cDNA Size: 828bp
RefSeq: NM_178931.2
Plasmid: pCMV3-His-mTNFRSF14

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 + 0.92kb)
Vector: pCMV3-SP-N-His
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>pCMV3-F</th>
<th>5' CAGGTGTCCACTCCCAGGTCCAAG 3'</th>
</tr>
</thead>
<tbody>
<tr>
<td>pcDNA3-R</td>
<td>5' GGCACTAGAAGGCACAGTCGAGG 3'</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Forward T7</th>
<th>5' TAATACGACTCTATAGGG 3'</th>
</tr>
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<tbody>
<tr>
<td>ReverseBGH</td>
<td>5' TAGAAGGCACAGTCGAGG 3'</td>
</tr>
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</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’.  

Fax:+86-10-51029969  Tel:+86- 400-890-9989  http://www.sinobiological.com
Mouse HVEM/TNFRSF14 ORF mammalian expression plasmid, N-His tag

Catalog Number:  MG50550-NH

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-His
Vector Size           6149bp
Vector Type           Mammalian Expression Vector
Expression Method     Constuitive, Stable / Transient
Promoter              CMV
Antibiotic Resistance Kanamycin
Selection In          Hygromycin
Mammalian Cells
Protein Tag           His

Catalog Number: MG50550-NH
**pCMV3-SP-N-His (suitable for secretary and membrane protein expression)**

### Physical Map

![Physical Map of pCMV3-SP-N-His](image)

### Description

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<tr>
<td>Protein Tag</td>
<td>His</td>
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<td>Sequencing Primer</td>
<td>Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCACAGTCGAGG)</td>
</tr>
</tbody>
</table>

### Schematic of pCMV3-SP-N-His Multiple Cloning Sites

![Schematic of pCMV3-SP-N-His](image)

**Comments for pCMV3-SP-N-His:**

- CMV promoter: bases 250-837
- enhancer: bases 838-1445
- SV40 early promoter: bases 2390-2759
- Hygromycin ORF: bases 2777-3802
- pUC origin: bases 4445-5118
- Kanamycin ORF: bases 5192-6007

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