Human CD155 / PVR transcript variant 1 ORF mammalian expression plasmid, N-Flag tag

Catalog Number: HG10109-NF

General Information
Gene: poliovirus receptor (PVR), transcript variant 1
Official Symbol: PVR
Synonym: CD155, PVS, HVED, PVR, NECL5, TAGE4, Necl-5
Source: Human
cDNA Size: 1254bp
RefSeq: NM_006505.3
Plasmid: pCMV3-Flag-PVR

Description
Lot: Please refer to the label on the tube
Sequence Description:
Identical with the Gene Bank Ref. ID sequence.
Restriction site: HindIII + XbaI (6kb + 1.28kb)
Vector: pCMV3-SP-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' CAGGTGTCCACTCCAGGTCCAAG 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:
**Physical Map**

**Comments for pCMV3-SP-N-FLAG:**
- CMV promoter: bases 250-837
- enhancer: bases 838-1445
- SV40 early promoter: bases 2384-2753
- Hygromycin ORF: bases 2771-3793
- pUC origin: bases 4439-5112
- Kanamycin ORF: bases 5186-6001

**Description**

<table>
<thead>
<tr>
<th>Vector Name</th>
<th>pCMV3-SP-N-FLAG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vector Size</td>
<td>6143bp</td>
</tr>
<tr>
<td>Vector Type</td>
<td>Mammalian Expression Vector</td>
</tr>
<tr>
<td>Expression Method</td>
<td>Constitutive, Stable / Transient</td>
</tr>
<tr>
<td>Promoter</td>
<td>CMV</td>
</tr>
<tr>
<td>Antibiotic Resistance</td>
<td>Kanamycin</td>
</tr>
<tr>
<td>Selection In Mammalian Cells</td>
<td>Hygromycin</td>
</tr>
<tr>
<td>Protein Tag</td>
<td>FLAG</td>
</tr>
<tr>
<td>Sequencing Primer</td>
<td>Forward: T7 (TAATACGACTCACTATAGGG)</td>
</tr>
<tr>
<td></td>
<td>Reverse: BGH (TAGAAGGCACAGTCGAGG)</td>
</tr>
</tbody>
</table>

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

pCMV3-SP-N-Flag is recommended for constructing the N-FLAG 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.