### General Information

**Gene:** epidermal growth factor receptor  
**Official Symbol:** EGFR  
**Synonym:** Wa5, wa2, Erbb, Errp, wa-2, Al552599, 9030024J15Rik, Egfr  
**Source:** Mouse  
**cDNA Size:** 3633bp  
**RefSeq:** NM_207655.2  

### 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.

### 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: 40 T>C, 1725 A>G and 2799 G>A not causing the amino acid variation.

**Restriction site:** KpnI + NotI (6kb + 4.32kb)

**Vector:** pCMV3-C-OFPSpark

**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></th>
<th>Primer</th>
<th>Orientation</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV3-F</td>
<td>5’ CAGGTGTCCACTCCAGGTCAAG 3’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5’ GGCACTAGAAGGCACAGTCGAGG 3’</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th></th>
<th>Primer</th>
<th>Orientation</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward T7</td>
<td>5’ TAATACGACTCACTATAGGG 3’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ReverseBGH</td>
<td>5’ TAGAAGGCACAGTCGAGG 3’</td>
<td></td>
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</tbody>
</table>

*pCMV3-F and pcDNA3-R are designed by Sino Biological Inc. Customers can order the primer pair from any oligonucleotide supplier.

**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: