**Mouse beta Act/ACTB Gene ORF cDNA clone expression plasmid, C-OFPSpark tag**

**Catalog Number:** MG57265-ACR

### General Information

<table>
<thead>
<tr>
<th><strong>Gene:</strong></th>
<th>actin, beta</th>
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<tbody>
<tr>
<td><strong>Official Symbol:</strong></td>
<td>ACTB</td>
</tr>
<tr>
<td><strong>Synonym:</strong></td>
<td>Actx; beta-actin; E430023M04Rik</td>
</tr>
<tr>
<td><strong>Source:</strong></td>
<td>Mouse</td>
</tr>
<tr>
<td><strong>cDNA Size:</strong></td>
<td>1815bp</td>
</tr>
<tr>
<td><strong>RefSeq:</strong></td>
<td>NM_007393.5</td>
</tr>
<tr>
<td><strong>Plasmid:</strong></td>
<td>pCMV3-mACTB-OFPSpark</td>
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</tbody>
</table>

### Description

<table>
<thead>
<tr>
<th><strong>Lot:</strong></th>
<th>Please refer to the label on the tube</th>
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<tbody>
<tr>
<td><strong>Sequence Description:</strong></td>
<td>Identical with the Gene Bank Ref. ID sequence.</td>
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<tr>
<td><strong>Restriction site:</strong></td>
<td>HindIII + Nool(6kb+1.82kb)</td>
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<td><strong>Vector:</strong></td>
<td>pCMV3-C-OFPSpark</td>
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<tr>
<td><strong>Quality control:</strong></td>
<td>The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.</td>
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#### Sequencing primer list:

- **pCMV3-F:** 5' CAGGTGTCCACTCCCAGGTCCAAG 3'
- **pcDNA3-R:** 5' GGCAACTAGAAGGCACAGTCGAGG 3'
- **Or**
  - **Forward T7:** 5' TAATACGACTCACTATAGGG 3'
  - **Reverse BGH:** 5' TAGAAGGCACAGTCGAGG 3'

**Plasmid Resuspension protocol**

1. Centrifuge at $5,000 \times g$ for 5 min.
2. Carefully open the tube and add 100 $\mu l$ 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 $5000 \times g$.
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".

**Shipping carrier:**

Each tube contains approximately 10 $\mu g$ of lyophilized plasmid.

**Storage:**

The lyophilized plasmid can be stored at ambient temperature for three months.

**Manufactured By Sino Biological Inc.,** FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-5862-8288 ● Tel:+86- 400-890-9989 ● http://www.sinobiological.com
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 of Plasmid](attachment:plasmid_map.png)