Rat PKM ORF mammalian expression plasmid, C-Flag tag

Catalog Number:  RG80568-CF

General Information
Gene: pyruvate kinase, muscle
Official Symbol: PKM
Synonym: Pk3, Pkm2, PKM12
Source: Rat
cDNA Size: 1596bp
RefSeq: NM_053297.2

Description
Lot: Please refer to the label on the tube
Vector: pCMV3-C-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:
pCMV3-F: 5’ CAGGTGTCCACTCCAGGTCCAAG 3’
pcDNA3-R: 5’ GGCAACTAGAAGGCACAGTCGAGG 3’

Or
Forward T7: 5’ TAATACGACTCACTAGGG 3’
ReverseBGH: 5’ TAGAAGGCACAGTCGAGG 3’

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.

<table>
<thead>
<tr>
<th>Vector Name</th>
<th>pCMV3-C-FLAG</th>
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<tbody>
<tr>
<td>Vector Size</td>
<td>6158bp</td>
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<tr>
<td>Vector Type</td>
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<td>Expression Method</td>
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<td>Promoter</td>
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<td>Antibiotic Resistance</td>
<td>Kanamycin</td>
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<td>Selection In Mammalian Cells</td>
<td>Hygromycin</td>
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<td>Protein Tag</td>
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