# Human KCNJ1 Gene ORF cDNA clone expression plasmid, C-Flag tag



Catalog Number: HG18652-CF

**General Information** 

Gene: potassium inwardly-rectifying channel,

subfamily J, member 1

Official Symbol: KCNJ1

Synonym: KIR1.1; ROMK; ROMK1

Source: Human

cDNA Size: 1215bp (cDNA Size= Gene + linker

+Tags)

**RefSeq:** NM\_000220.4

Plasmid: pCMV3-KCNJ1-Flag

**Description** 

Lot: Please refer to the label on the tube

**Sequence Description:** 

Identical with the Gene Bank Ref. ID sequence.

Restriction site: Kpnl + Xbal(6kb+1.22kb)

Vector: pCMV3-C-FLAG

**Quality control:** 

The plasmid is confirmed by full-length sequencing with primers

in the sequencing primer list.

Sequencing primer list:

pCMV3-F: 5' CAGGTGTCCACTCCCAGGTCCAAG 3'

pcDNA3-R: 5' GGCAACTAGAAGGCACAGTCGAGG 3'

Or

Forward T7: 5' TAATACGACTCACTATAGGG 3'

ReverseBGH: 5' TAGAAGGCACAGTCGAGG 3'

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

### 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.

## **Plasmid Resuspension protocol**

- 1. Centrifuge at 5,000×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, DH5 $\alpha$  and TOP10F $^{\prime}$ .

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#### **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.

Vector name pCMV3-C-FLAG

Vector size 6158bp

Vector Type Mammalian Expression Vector

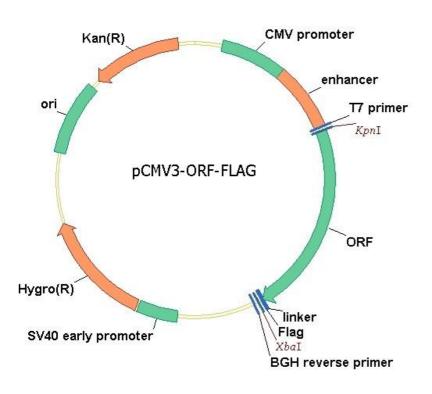
Expression Method Constitutive ,Stable / Transient

Promoter CMV

Bacterial Resistance Kanamycin
Selection In Cells Hygromycin

Protein tag FLAG

#### Physical Map of Plasmid:



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