

# Human IFN $\alpha$ R2 transcript variant 1 ORF mammalian expression plasmid, C-OFPSpark / RFP tag



**Sino Biological Inc.**  
Biological Solution Specialist

Catalog Number: HG10359-ACR

## General Information

**Gene :** interferon (alpha, beta and omega) receptor 2, transcript variant 1  
**Official Symbol :** IFNAR2  
**Synonym :** IFN-R, IFNABR, IFNARB, IFN-alpha-REC, IFNAR2  
**Source :** Human  
**cDNA Size:** 1548bp  
**RefSeq :** NM\_207585.1

## Description

**Lot :** Please refer to the label on the tube

**Vector :** pCMV3-C-OFPSpark

### 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.

### Quality control :

The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

### Sequencing primer list :

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pCMV3-F: 5' CAGGTGTCCACTCCCAGGTCCAAG 3'

pcDNA3-R : 5' GGCAACTAGAAGGCACAGTCGAGG 3'

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Or

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Forward T7 : 5' TAATACGACTCACTATAGGG 3'

ReverseBGH : 5' TAGAAGGCACAGTCGAGG 3'

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

## 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  $^{\circ}$ 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'.

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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-OFPSpark
Vector Size	6806bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive ,Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	OFPSpark
Sequencing Primer	Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCACAGTCGAGG)