

# Human CD25 / IL2R $\alpha$ natural ORF mammalian expression plasmid



**Sino Biological Inc.**  
Biological Solution Specialist

Catalog Number: HG10165-UT

## General Information

**Gene :** interleukin 2 receptor, alpha (IL2RA)  
**Official Symbol :** IL2RA  
**Synonym :** IL2RA, CD25, IL2R, TCGFR, IDDM10  
**Source :** Human  
**cDNA Size:** 819bp  
**RefSeq :** NM\_000417.1  
**Plasmid** pCMV3-IL2RA

## Description

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

### Sequence Description :

Identical with the Gene Bank Ref. ID sequence except for the point mutation: 516 C/T not causing the amino acid variation.

**Restriction site:** KpnI + XbaI (6.1kb + 0.82kb)

**Vector :** pCMV3-untagged

### 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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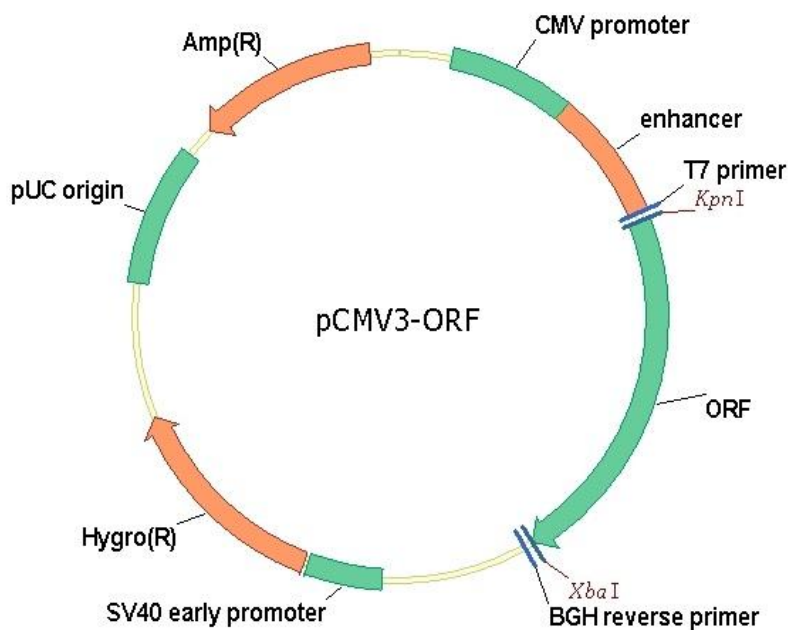
## Vector Information

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-untagged
Vector Size	6223bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Ampicillin
Selection In Mammalian Cells	Hygromycin
Protein Tag	None

## Physical Map of Plasmid :



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