

Human CD25 / IL2R α ORF mammalian expression plasmid, N-HA tag



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: HG10165-NY

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-HA-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 mutations: 543 C/T not causing the amino acid variation.

Restriction site: KpnI + XbaI (6kb + 0.85kb)

Vector : pCMV3-SP-N-HA

Shipping carrier :

Each tube contains approximately 10 μ 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 :

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.

Plasmid Resuspension protocol

1. Centrifuge at 5,000 \times g for 5 min.
2. Carefully open the tube and add 100 μ 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 α and TOP10F'.

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

Fax :+86-10-51029969 • Tel:+86- 400-890-9989 • <http://www.sinobiological.com>

Human CD25 / IL2R α ORF mammalian expression plasmid, N-HA tag



Sino Biological Inc.

Biological Solution Specialist

Catalog Number: HG10165-NY

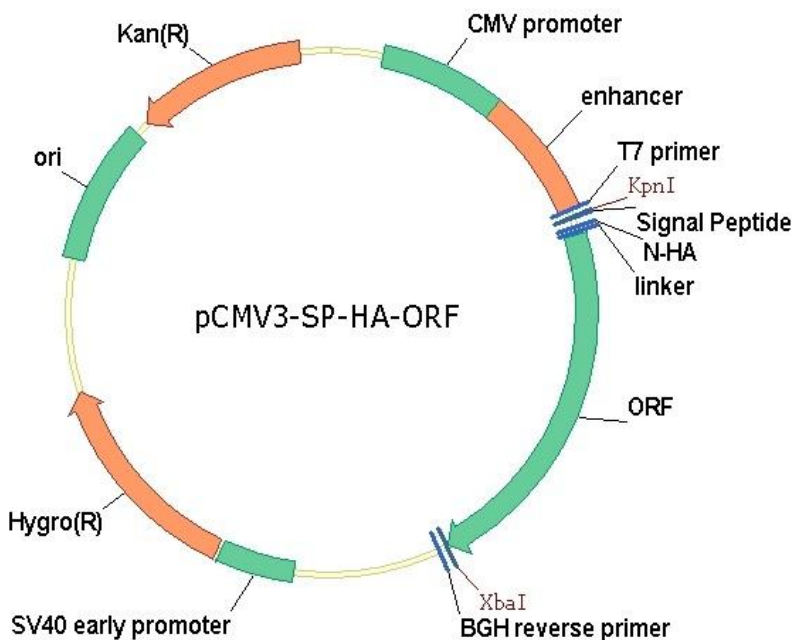
Vector Information

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-SP-N-HA |
| Vector Size | 6146bp |
| Vector Type | Mammalian Expression Vector |
| Expression Method | Constitutive, Stable / Transient |
| Promoter | CMV |
| Antibiotic Resistance | Kanamycin |
| Selection In Mammalian Cells | Hygromycin |
| Protein Tag | HA |

Physical Map of Plasmid :



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

Fax :+86-10-51029969

• Tel:+86- 400-890-9989

• <http://www.sinobiological.com>

Physical Map



Comments for pCMV3-SP-N-HA:

CMV promoter: bases 250-837
 enhancer: bases 838-1445
 SV40 early promoter: bases 2387-2756
 Hygromycin ORF: bases 2774-3799
 pUC origin: bases 4442-5115
 Kanamycin ORF: bases 5189-6004

Description

| | |
|------------------------------|---|
| Vector Name | pCMV3-SP-N-HA |
| Vector Size | 6146bp |
| Vector Type | Mammalian Expression Vector |
| Expression Method | Constitutive, Stable / Transient |
| Promoter | CMV |
| Antibiotic Resistance | Kanamycin |
| Selection In Mammalian Cells | Hygromycin |
| Protein Tag | HA |
| Sequencing Primer | Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCACAGTCGAGG) |

Schematic of pCMV3-SP-N-HA Multiple Cloning Sites



pCMV3-SP-N-HA is recommended for constructing the N-HA tag secretory and membrane proteins expression vector which containing a naïve signal peptide. An universal signal peptide is used to instead the naïve signal peptide.