

Human CD25 / IL2R α ORF mammalian expression plasmid, C-GFPSpark tag



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: HG10165-ACG

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-GFPSpark

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: 516 C>T not causing the amino acid variation.

Restriction site: KpnI + XbaI (6kb + 1.55kb)

Vector : pCMV3-C-GFPSpark

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'.

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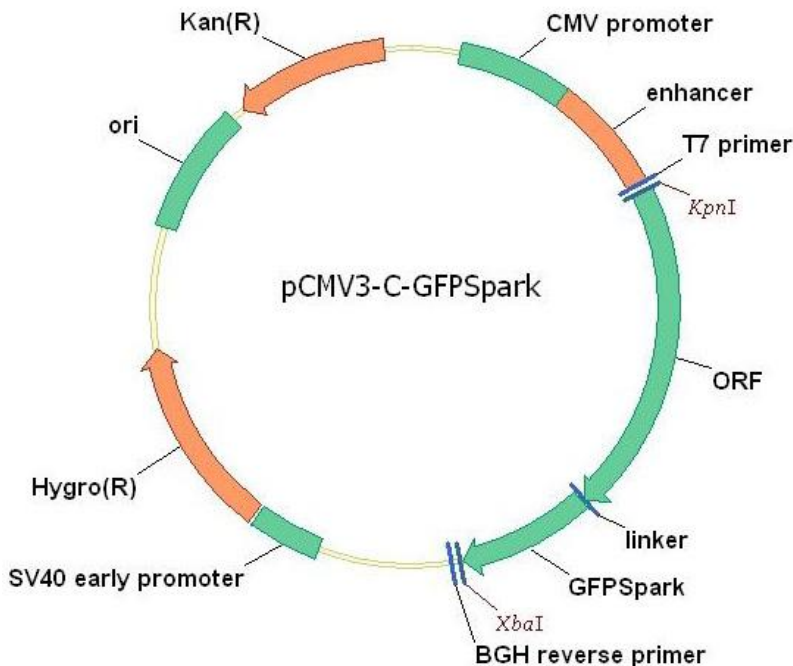
Vector Information

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-GFPSpark
Vector Size	6848bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	GFPSpark

Physical Map of Plasmid :



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