Rat SDF-1/CXCL12 Gene ORF cDNA clone expression plasmid, C-GFPSpark tag



Catalog Number: RG81830-ACG

General Information

Gene: chemokine (C-X-C motif) ligand 12

Official Symbol: CXCL12

Synonym: Sdf1

Source: Rat

cDNA Size: 1011bp (cDNA Size= Gene + linker

+Tags)

RefSeq: NM_001033882.1

Plasmid: pCMV3-ratCXCL12-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: 21C/T not causing the amino acid variation.

Restriction site: Kpnl + Xbal(6kb+1.01kb)

Vector: pCMV3-C-GFPSpark

Quality control:

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

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 μg 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 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 $^{\prime}$.

Website: http://www.sinobiological.com

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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

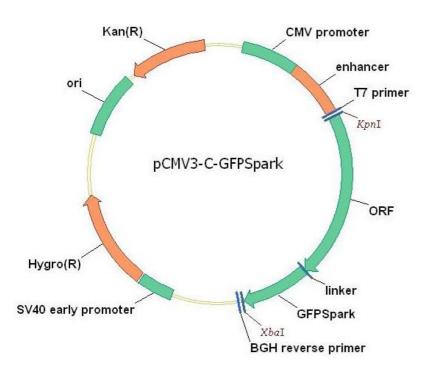
Expression Method Constitutive ,Stable / Transient

Promoter CMV

Bacterial Resistance Kanamycin
Selection In Cells Hygromycin

Protein tag GFPSpark

Physical Map of Plasmid:



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