Human GABARAPL2 ORF mammalian expression plasmid, N-HA tag



Catalog Number: HG14563-NY

General Information

Gene: GABA(A) receptor-associated protein-like

Official Symbol: GABARAPL2

Synonym: ATG8, GEF2, ATG8C, GEF-2, GATE16,

GATE-16

Source: Human

cDNA Size: 354bp

RefSeq: NM_007285.6

Description

Lot: Please refer to the label on the tube

pCMV3-SP-N-HA Vector:

Shipping carrier:

Each tube contains approximately 10 µg 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×g for 5 min.
- Carefully open the tube and add 100 µl of sterile water to dissolve the DNA.
- 3. Close the tube and incubate for 10 minutes at room temperature.
- Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
- 5. Store the plasmid at -20 ℃.

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, DH5α 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-SP-N-HA

Vector Size 6146bp

Vector Type Mammalian Expression Vector Expression Method Constiutive, Stable / Transient

Promoter CMV

Antibiotic Resistance Kanamycin

Selection In Mammalian Cells

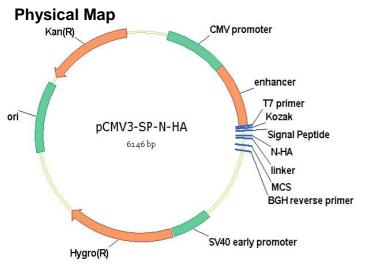
Protein Tag

HA

Hygromycin

pCMV3-SP-N-HA (suitable for secretary and membane protein expession)





Comments for pCMV3-SP-N-HA:

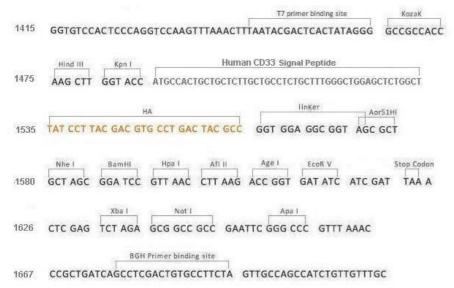
CMV promoter: bases 250-837 enhancer: bases 838-1445

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 secretary and membrane proteins expression vector which containing a naïve signal peptide. An universal signal peptide is used to instead the naïve signal peptide.