

Influenza A H1N1 (A/Puerto Rico/8/34) Hemagglutinin cDNA Clone

Catalog Number: VG11684-C



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene : H1N1 (A/Puerto Rico/8/34)
Hemagglutinin

Official Symbol : HA

Synonym : HA

Source : H1N1

cDNA Size: 1720

Description

Lot : Please refer to the label on the tube

cDNA Description :

ORF Clone of Influenza A H1N1 (A/Puerto Rico/8/34) Hemagglutinin DNA. This cDNA clone has gone through customized codon optimization in order to obtain high level of protein expression in particular cell lines. Therefore, although the translated amino acid sequence is identical to the amino sequence on Gene Bank, the DNA sequence is different from that on Gene Bank.

Vector :

Vector 3. Restriction site: KpnI + XbaI

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 :

pcDNA3-L : 5' CTAGAGAACCCACTGCTTACTGGC 3'

pcDNA3-R : 5' GGCAACTAGAAGGCACAGTCGAGG 3'

Or

Forward T7 : 5' TAATACGACTCACTATAGGG 3'

ReverseBGH : 5' TAGAAGGCACAGTCGAGG 3'

pcDNA3-L 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.
2. 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.
4. 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 °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, DH5α and TOP10F'.

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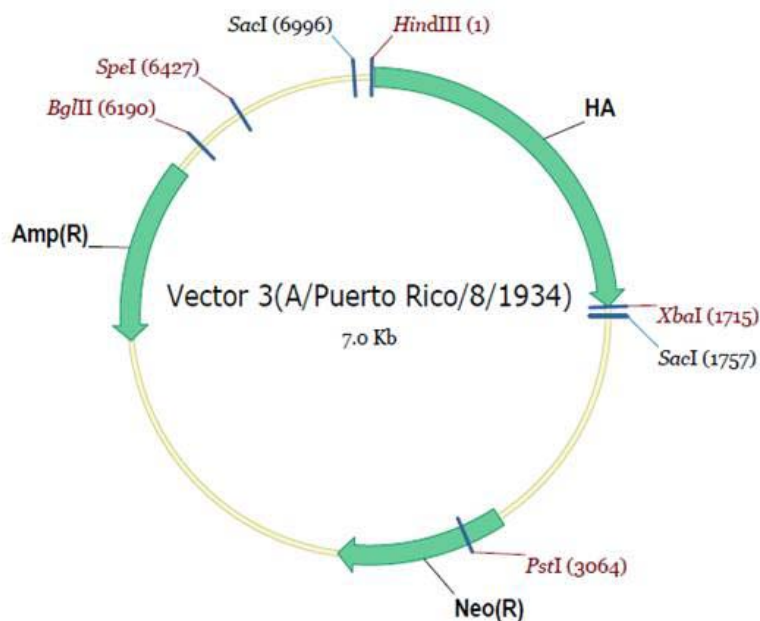
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Vector Information

The Vector 3 is designed for high-level stable and transient expression in mammalian hosts. The vectors contain the following elements:

- Human cytomegalovirus immediate-early (CMV) promoter for high-level expression in a wide range of mammalian cells.
- Neomycin resistance gene for selection of mammalian cell lines.
- Multiple cloning sites to facilitate cloning.

Physical Map of Vector 3:



Vector Name	Vector 3
Vector Size	5446bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Ampicillin
Selection In Mammalian Cells	Neomycin
Protein Tag	None

* Please refer to
<http://www.sinobiological.com/Vector-3-a-1637.html>
for the vector sequence.

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

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