General Information
Official Symbol : HA
Synonym : HA
Source : H3N2
cDNA Size: 1746bp
Plasmid pCMV3-H3N2-IN-12-HA-His

Description
Lot : Please refer to the label on the tube

Sequence Description :
A number of silent mutations were introduced into the DNA sequence in order to increase its protein expression level in mammalian cell system. The translated amino acid sequence is identical with AFR61003.1.

Restriction site: KpnI + XbaI(6kb+1.75kb)
Vector : pCMV3-C-His
Quality control :
The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

Sequencing primer list :
pCMV3-F: 5’ CAGGTGTCCACTCCAGGTCCAAG 3’
pcDNA3-R : 5’ GGCAACTAGAAGGCACAGTCGAGG 3’
Or
Forward T7 : 5’ TAATACGACTCATAAGG 3’
ReverseBGH : 5’ TAGAAGGCACAGTCGAGG 3’

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’.
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.

Physical Map of Plasmid :

Catalog Number:      VG40395-CH

Influenza A H3N2 (A/Indiana/07/2012)  
Hemagglutinin / HA (Codon Optimized) ORF  
mammalian expression plasmid, C-His tag

Vector Name            pCMV3-C-His
Vector Size            6164bp
Vector Type            Mammalian Expression Vector
Expression Method      Constitutive, Stable / Transient
Promoter               CMV
Antibiotic Resistance  Kanamycin
Selection In Mammalian Cells  Hygromycin
Protein Tag            His

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