

## Pseudovirus-SARS-ORF1a-N (SARS-ORF1a and SARS-N Gene)

Cat# PV026

Store at -20°C for 6 months

### INFORMATION

**DESCRIPTION:** Partial of ORF1a gene sequences and all of N Gene coding sequence from the Severe Acute Respiratory Syndrome (SARS) were obtained by chemical synthesis and cloned into a retrovirus vector. 293T cells were used for the pseudovirus preparation. The tomography column was used for virus purification following super centrifuge concentration. The envelope protein of pseudovirus is coded by ORF1a/b Gene Sequence, N Gene Coding Region Sequence, which can be used for viral RNA nucleic acid extraction and as positive control products for Q-PCR testing.

**PRODUCT NAME:** FNV-SARS-ORF1a-N pseudovirus

**APPLICATIONS:** Research use only.  
Recommended amount: 50-100 µl/time. According to experimental conditions, it can be adjusted.

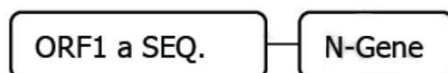
**TAG:** ORF1a SEQ & N Gene

**Main ingredient:** glucose 、 KH<sub>2</sub>PO<sub>4</sub> 、 Na<sub>2</sub>HPO<sub>4</sub> 、 NaCl 、 KCl 、 pseudovirus

**FORMULATION:** Liquid

**STORAGE & STABILITY:** The product can be stored at -20°C or below for 6 months. Avoid repeated freezing and thawing cycles.

**CONSTRUCTION:**



## **PROTOCOL**

1. Remove pseudovirus from the -20°C freezer, and let it melt naturally on ice or at 4°C. Experiments can be carried out when it is completely melted.
2. Pseudovirus inactivation (Optional): transfer the required amount of pseudovirus to the EP tube in the biosafety cabinet, then the virus can be inactivated at 56°C for 30 min.
3. Pseudovirus nucleic acid extraction (materials prepared by user): This product can be used for nucleic acid extraction with membrane adsorption or bead-absorbing kits.
4. Q-PCR detection (materials prepared by user): Pseudovirus cDNA is synthesized from the pseudovirus RNA template via reverse transcription, which can be used for the Q-PCR quantitative test.
5. Additional notes: There may be a small amount of plasmid DNA residue during the preparation of this product. For the experiments with high purity requirements, the RNA evaluation can be performed using the DNase-DEPC H<sub>2</sub>O provided by the company. DNase enzyme inactivation (Optional): add the EDTA for a final concentration of 5mM, at 75°C for 10min.

## **PRECAUTIONS**

1. Pseudovirus is sensitive to freeze-thawing and the titer drops with repeated freeze-thawing, which may affect the efficiency of nucleic acid extraction and Q-PCR test results.
2. Virus inactivation may cause RNA degradation. Users may optimize it according to reasonable experimental needs.
3. If dilution of this product is required, PBS or 0.9% NaCl is recommended for virus dilution.
4. If this product is accidentally splashed on the eyes, skin, or other body parts, wash immediately with plenty of water.
5. Experimental waste generated by the use of this product needs to be autoclaved and proceed following medical waste disposal requirements.

## **SEQUENCE INFORMATION**

1. SARS-ORF1a

CCTGCTAAAGCATATAAGGATTACCTAGCAAGTGGAGGACAACCAATCACCAACTGTGTGAAGATGTTGTGTACACACACTGGTAC  
AGGACAGGCAATTACTGTAACACCAGAAGCTAACATGGACCAAGAGTCCTTTGGTGGTGCTTCATGTTGTCTGTATTGTAGATGCCA  
CATTGACCATCCAAATCCTAAAGGATTCTGTGACTTGAAAGGTAAGTACGTCCAAATACCTACCACTTGTGCTAATGACCCAGTGGG  
TTTTACACTTAGAAACACAGTCTGTACCGTCTGCGGAATGTGGAAAGGTTATGGCTGTAGTTGTGACCAACTCCGCGAACCCCTTGAT

GCAGTCTGCGGATGCATCAACGTTTTTAAACGGGTTTGCGGTGTAAAGTGCAGCCCGTCTTACACCGTGCGGCACAGGCACTAGTAC  
TGATGTCGTCTACAGGGCTTTTGATATTTACAACGAAAAAGTTGCTGGTTTTGCAAAG

## 2. SARS-N Gene

GCGTCTTGGTTCACAGCTCTCACTCAGCATGGCAAGGAGGAACTTAGATTCCCTCGAGGCCAGGGCGTTCCAATCAACACCAATAG  
TGGTCCAGATGACCAAATTGGCTACTACCGAAGAGCTACCCGACGAGTTCGTGGTGGTGACGGCAAATGAAAGAGCTCAGCCCC  
AGATGGTACTTCTATTACCTAGGAACTGGCCAGAAAGCTTCACTTCCCTACGGCGCTAACAAAGAAGGCATCGTATGGGTTGCAACT  
GAGGGAGCCTTGAATACACCCAAAGACCACATTGGCACCCGCAATCCTAATAACAATGCTGCCACCGTGCTACAACCTCCTCAAGG  
AACAAACATTGCCAAAAGGCTTCTACGCAGAGGGGAAGCAGAGGCGGCAGTCAAGCCTCTTCTCGCTCCTCATCACGTAGTCGCGGT  
AATTCAAGAAATTCAACTCCTGGCAGCAGTAGGGGAAATTCTCCTGCTCGAATGGCTAGCGGAGGTGGTGAAGTGCCTCGCGC  
TATTGCTGCTAGACAGATTGAACCAGCTTGAGAGCAAAGTTTCTGGTAAAGGCCAACAAACAAGGCCAAACTGTACTAAGAA  
ATCTGCTGCTGAGGCATCTAAAAGCCTCGCCAAAAACGTAC

### **PRODUCT USE LIMITATION**

These products are intended for research use only.