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Datasheet

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

Cat# PV026

Store at -20°C for 6 months

INFORMATION

DESCRIPTION:	Particial 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_2PO_4、Na_2HPO_4、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 H2O 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 freezethawing, which may affect the efficiency of nuclear 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 that 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.

SEQENCE INFORMATION

1. SARS-ORF1a

CCTGCTAAAGCATATAAGGATTACCTAGCAAGTGGAGGACAACCAATCACCAACTGTGTGAAGATGTTGTGTACACACACTGGTAC
AGGACAGGCAATTACTGTAACACCAGAAGCTAACATGGACCAAGAGTCCTTTGGTGGTGCTTCATGTTGTCTGTATTGTAGATGCCA
CATTGACCATCCAAATCCTAAAGGATTCTGTGACTTGAAAGGTAAGTACGTCCAAATACCTACCACTTGTGCTAATGACCCAGTGGG
TTTTACACTTAGAAACACAGTCTGTACCGTCTGCGGAATGTGGAAAGGTTATGGCTGTAGTTGTGACCAACTCCGCGAACCCTTGAT

GCAGTCTGCGGATGCATCAACGTTTTTAAACGGGTTTGCGGTGTAAGTGCAGCCCGTCTTACACCGTGCGGCACAGGCACTAGTAC
TGATGTCGTCTACAGGGCTTTTGATATTTACAACGAAAAAGTTGCTGGTTTTGCAAAG

2. SARS-N Gene

GCGTCTTGGTTCACAGCTCTCACTCAGCATGGCAAGGAGGAACTTAGATTCCCTCGAGGCCAGGGCGTTCCAATCAACACCAATAG
TGGTCCAGATGACCAAATTGGCTACTACCGAAGAGCTACCCGACGAGTTCGTGGTGGTGACGGCAAAATGAAAGAGCTCAGCCCC
AGATGGTACTTCTATTACCTAGGAACTGGCCCAGAAGCTTCACTTCCCTACGGCGCTAACAAAGAAGGCATCGTATGGGTTGCAACT
GAGGGAGCCTTGAATACACCCAAAGACCACATTGGCACCCGCAATCCTAATAACAATGCTGCCACCGTGCTACAACTTCCTCAAGG
AACAACATTGCCAAAAGGCTTCTACGCAGAGGGAAGCAGAGGCGGCAGTCAAGCCTCTTCTCGCTCCTCATCACGTAGTCGCGGT
AATTCAAGAAATTCAACTCCTGGCAGCAGTAGGGGAAATTCTCCTGCTCGAATGGCTAGCGGAGGTGGTGAAACTGCCCTCGCGC
TATTGCTGCTAGACAGATTGAACCAGCTTGAGAGCAAAGTTTCTGGTAAAGGCCAACAACAACAAGGCCAAACTGTCACTAAGAA
ATCTGCTGCTGAGGCATCTAAAAAGCCTCGCCAAAAACGTAC

PRODUCT USE LIMITATION

These products are intended for research use only.