

## 2019-nCoV control plasmid system



Cat. No. SM317-0250  
Store at -20°C

Size: 50 µl X 5 vial

### Description

The current detection protocol for new coronavirus is mainly nucleic acid detection including: virus sample preparation, viral nucleic acid extraction, RNA reverse transcription to cDNA, QPCR detection and analysis. We clone partial gene sequence of Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2; novel coronavirus (2019-nCoV)), that causes coronavirus disease 2019 into pcDNA3.1(+) vector or pGH vector, respectively. These constructed plasmids could be used as the positive control of 2019-nCoV detection.

### Kit Contents

Contents	SM317-0250
pcDNA-nCoV-S, 100 ng/ul	50 µl
pcDNA-nCoV-E, 100 ng/ul	50 µl
pcDNA-nCoV-M, 100 ng/ul	50 µl
pcDNA-nCoV-N, 100 ng/ul	50 µl
pGH-nCoV-1abN, 100 ng/ul	50 µl

### Quality Control

The quality of the 2019-nCoV control plasmid system is tested on a lot-to-lot basis to ensure consistent product quality.

### Required Materials

- qPCR reagent
- qPCR thermal cycling instrument
- Gene-specific primers and fluorogenic probe
- RNase inhibitor (optional)
- Reaction tubes and caps /qPCR plates and seals
- DEPC- treat water
- ROX reference dye (optional)

### Plasmid Information

Plasmid Name	Vector Backbone	Insert Gene Length (bp)	Whole Length (bp)
pcDNA-nCoV-S	pCDNA3.1(+)	3822	9188
pcDNA-nCoV-E	pCDNA3.1(+)	228	5619
pcDNA-nCoV-M	pCDNA3.1(+)	669	6060
pcDNA-nCoV-N	pCDNA3.1(+)	1260	6615
pGH-nCoV-1abN	pGH	739	3656

For each plasmid map and insert gene sequence, please visit to website: <https://www.genedirex.com/>

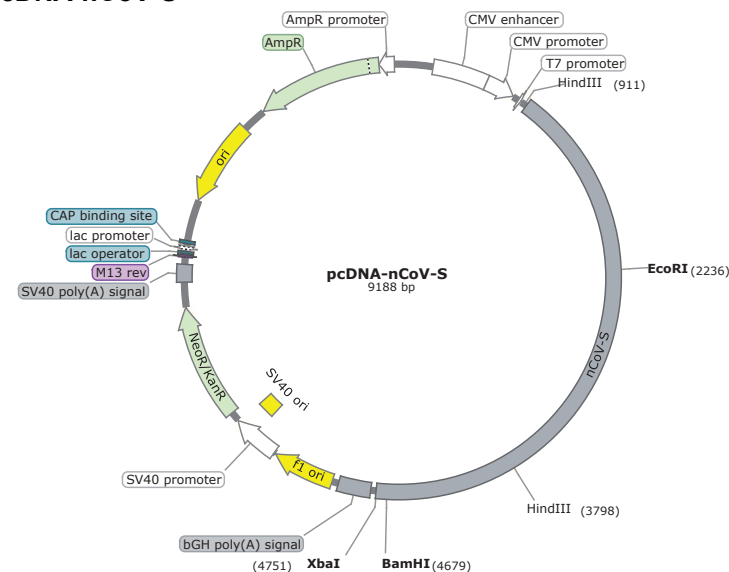
### Related Ordering Information

Cat. No.	Description	Size
SN017-0100	Total RNA Isolation Kit (Blood/ Cultured Cell/ Fungus)	100 Reactions
SN020-0100	Total RNA Isolation Kit (Plant)	100 Reactions
SN021-0100	Total RNA Isolation Kit (Tissue)	100 Reactions
SM305-0050	Gscript First Strand Synthesis Kit, 50rxns	50 Reactions
SN011-0100	MBead Virus Nucleic acid Kit	100 Reactions
SN016-0100	Virus Nucleic Acid Isolation Kit	100 Reactions
SQ101-0100	SimplyGreen qPCR Master Mix, Rox	100 Reactions
SQ102-0100	SimplyGreen qPCR Master Mix, Low Rox	100 Reactions
SQ103-0100	SimplyGreen qPCR Master Mix, no Rox	100 Reactions
SR001-2500	RiboIn RNase Inhibitor, 40 U /µl	2500 U

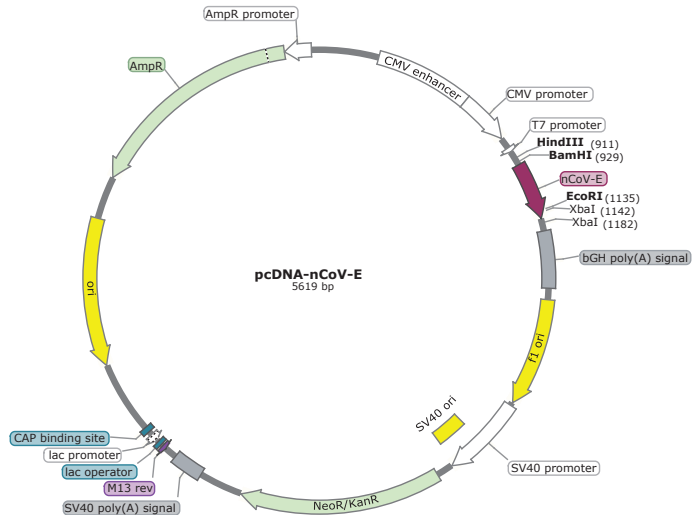
### Caution

- During operation, always wear a lab coat, disposable gloves, and protective equipment.
- Research Use Only. Not intended for any animal or human therapeutic or diagnostic uses.

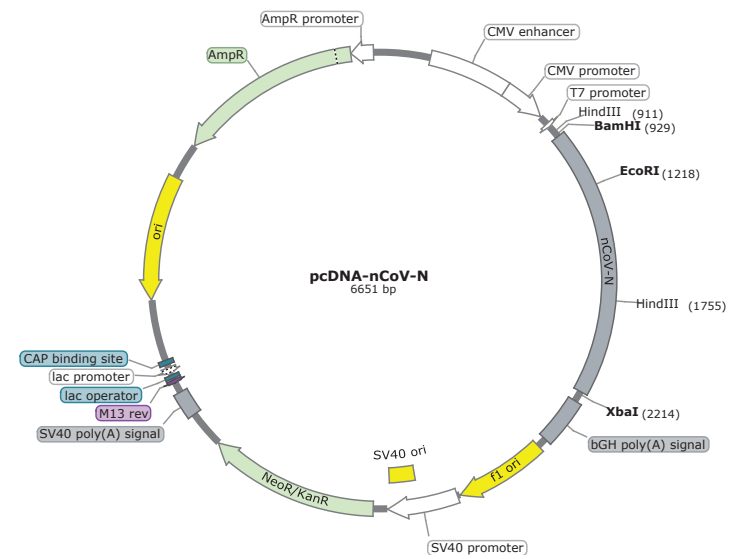
### pcDNA-nCoV-S



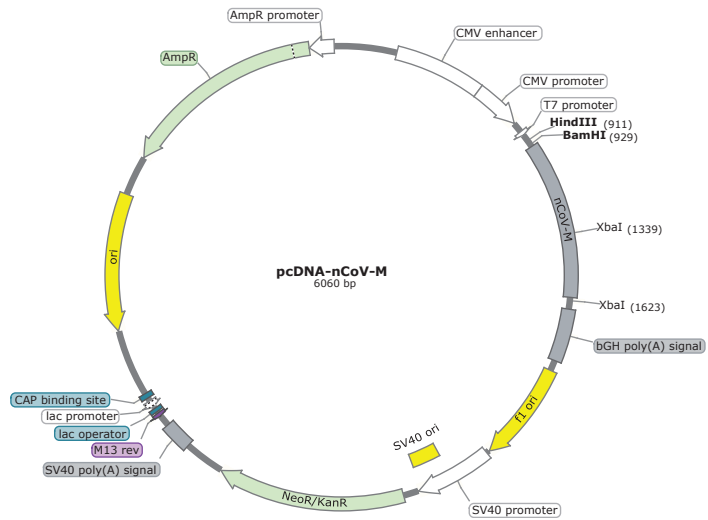
### pcDNA-nCoV-E



### pcDNA-nCoV-N



### pcDNA-nCoV-M



### pGH-nCoV-1abN

