

AddMedi SARS-CoV-2 Sequencing Kit

Product Information

Product Code ADM-SCSF1, ADM-SCSF2, ADM-SCSF3

Provided with

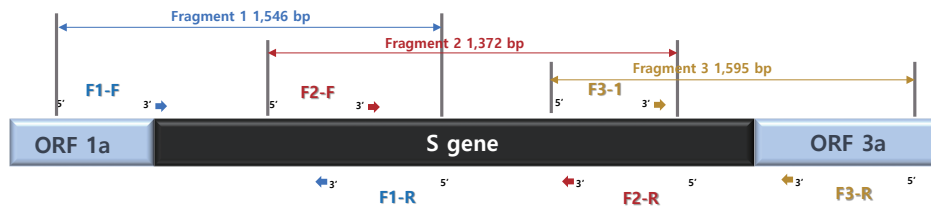
- Cat. No. ADM-SCSF1: 1. AddScript RT-PCR Master (2x conc.) 0.65 mL x 2 tubes
 2. 10x Oligo Mixture-1 (10x OM-1) 0.25 mL
 3. 5µM Fragment-1 Forward Primer for Sequencing (F1-F) 0.1 mL
 4. 5µM Fragment-1 Reverse Primer for Sequencing (F1-R) 0.1 mL
 5. Nuclease-free Water 0.1 mL
- Cat. No. ADM-SCSF2: 1. AddScript RT-PCR Master (2x conc.) 0.65 mL x 2 tubes
 2. 10x Oligo Mixture-2 (10x OM-2) 0.25 mL
 3. 5µM Fragment-2 Forward Primer for Sequencing (F2-F) 0.1 mL
 4. 5µM Fragment-2 Reverse Primer for Sequencing (F2-R) 0.1 mL
 5. Nuclease-free Water 0.1 mL
- Cat. No. ADM-SCSF3: 1. AddScript RT-PCR Master (2x conc.) 0.65 mL x 2 tubes
 2. 10x Oligo Mixture-3 (10x OM-3) 0.25 mL
 3. 5µM Fragment-3 Forward Primer for Sequencing (F3-F) 0.1 mL
 4. 5µM Fragment-3 Reverse Primer for Sequencing (F3-R) 0.1 mL
 5. Nuclease-free Water 0.1 mL

Storage Conditions -10°C ~ -30°C

Stability Stable for 1 year from manufacturing date.

Description

AddMedi SARS-CoV-2 Sequencing Kit는 SARS-CoV-2 양성 검체로부터 분리된 RNA 샘플을 이용하여 SARS-CoV-2의 Spike gene (S gene)의 전체부위를 sequencing할 수 있는 연구용 진단시약입니다. 각 primer를 이용하여 PCR을 진행할 경우 Fragment 1의 amplicon size는 1,546 bp, Fragment 2의 amplicon size는 1,372 bp 그리고 Fragment 3의 amplicon size는 1,595 bp입니다. 현재 전 세계적으로 발생하는 대부분의 변이에 대한 sequence는 Fragment 1과 2 primer를 이용하여 PCR 및 sequencing을 진행하면 확인할 수 있습니다.



Applications

- SARS-CoV-2 S gene Sequencing

Nucleic Acid Amplification Procedure

1. Add the following components to a thin-walled PCR tube:

AddScript RT-PCR Master (2x conc.)	12.5 µl
10x Oligo Mixture	2.5 µl
RNA template (or Positive control or Nuclease-free Water)	10 µl
Total reaction volume	25 µl

2. PCR cycling

cDNA synthesis	50°C, 20 min
Initial denaturation	95°C, 10 min
PCR cycling (40 cycles)	95°C, 30 sec
	60°C, 45 sec
	72°C, 60 sec
Final extension	72°C, 5 min
Hold	12°C, ∞

3. 전기영동

PCR product loading volume: 5 µl in 1.5% 0.5X TBE (or 1.0X TAE) agarose gel

* 제공되는 RT-PCR Master (2x conc.)에는 sequencing 반응을 위해서 loading dye가 포함되어 있지 않습니다.

전기영동이 필요할 경우 보유하고 계시는 6x loading dye를 사용하시기 바랍니다.

4. Sequencing

증폭이 확인된 PCR product와 제공되는 sequencing primer (샘플 당 5µM oligo 1 µl)를 sequencing service회사에 공급을 하시면 됩니다.

Manufacture

애드바이오메디텍

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