

Resource Summary Report

Generated by [dkNET](#) on Sep 13, 2026

Sequence-Independent, Single-Primer Amplification of RNA viruses

DOI:10.17504/protocols.io.bhk4j4yw

Type: Protocol

Proper Citation

Gage Moreno, David O'connor 2020. Sequence-Independent, Single-Primer Amplification of RNA viruses. protocols.io [dx.doi.org/10.17504/protocols.io.bhk4j4yw](https://doi.org/10.17504/protocols.io.bhk4j4yw)

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bhk4j4yw>

Authors: Gage Moreno, David O'connor

Group: Coronavirus Method Development Community

Summary: This protocol outlines the methods to perform unbiased direct metagenomic sequencing of nucleic acid extracts from cell-free fluids. This protocol can be adapted to be run on Illumina and Nanopore sequencing platforms. The protocol is based off of the work from Kafetzopoulou et al. (PMID: 30563591). Liana has provided the lab with detailed protocols, and has worked with us extensively on optimizing and getting protocols running efficiently. Please note that this protocol has been updated to use SuperScript IV with it's optimal temperature which has been reflected in Lewandowski et al. (DOI: <https://doi.org/10.1128/JCM.00963-19>) Notes: * This protocol has been used to sequence influenza direction from respiratory clinical samples (DOI: <https://doi.org/10.1128/JCM.00963-19>). * A team from China published last week on a 2019-nCoV familial cluster using the SISPA protocol as for coronavirus whole genome sequencing (DOI: [https://doi.org/10.1016/S0140-6736\(20\)30154-9](https://doi.org/10.1016/S0140-6736(20)30154-9)) SISPA-Primer A - 5'-GTT TCC CAC TGG AGG ATA-(N9)-3' SISPA-Primer B - 5'-GTT TCC CAC TGG AGG ATA-3'

Affiliations: University of Wisconsin - Madison, University of Wisconsin - Madison

Version: 4

Publication Date: 2020

Proper Citation: Gage Moreno, David O'connor 2020. Sequence-Independent, Single-Primer Amplification of RNA viruses. protocols.io [dx.doi.org/10.17504/protocols.io.bhk4j4yw](https://doi.org/10.17504/protocols.io.bhk4j4yw)

Record Creation Time: 20210329T220522+0000

Record Last Update: 20210329T220855+0000

Data and Source Information

Source: