

Resource Summary Report

Generated by [dkNET](#) on Sep 8, 2026

[COVID-19 ARTIC v3 Illumina library construction and sequencing protocol - short amplicons \(275bp\)](#)

DOI:10.17504/protocols.io.bh4zj8x6

Type: Protocol

Proper Citation

Emma Betteridge, Naomi Park, Keith James, Jillian Durham, Josh Quick 2020. COVID-19 ARTIC v3 Illumina library construction and sequencing protocol - short amplicons (275bp). protocols.io dx.doi.org/10.17504/protocols.io.bh4zj8x6

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bh4zj8x6>

Authors: Emma Betteridge, Naomi Park, Keith James, Jillian Durham, Josh Quick

Group: Coronavirus Method Development Community

Summary: This SOP describes the procedure for generating cDNA from SARS-CoV-2 viral nucleic acid extracts and subsequently producing 275nt amplicons. This is followed by library construction, equivolume pooling of samples and quantitation, prior to sequencing on the Illumina NovaSeq. A key benefit of the short amplicon method is that it can be utilised on any Illumina platform with a 300 cycle (or greater) kit. It is an adaptation of the 400nt COVID-19 ARTIC v3 amplicon protocol which can be found here: <https://www.protocols.io/view/covid-19-artic-v3-illumina-library-construction-an-bgxjxkn> Both the above protocols were adapted from the nCov-2019 sequencing protocol: <https://www.protocols.io/view/ncov-2019-sequencing-protocol-bbmuik6w>

Affiliations: Wellcome Sanger Institute, Wellcome Sanger Institute, Wellcome Sanger Institute, Wellcome Sanger Institute, University of Birmingham

Version: 1

Publication Date: 2020

Proper Citation: Emma Betteridge, Naomi Park, Keith James, Jillian Durham, Josh Quick 2020. COVID-19 ARTIC v3 Illumina library construction and sequencing protocol - short amplicons (275bp). protocols.io dx.doi.org/10.17504/protocols.io.bh4zj8x6

Record Creation Time: 20210329T220532+0000

Record Last Update: 20210329T221001+0000

Data and Source Information

Source: