

Resource Summary Report

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Novel coronavirus (2019-nCoV) real-time RT-PCR N gene 2020 (Wuhan-N; 2019-nCoV-related test) -NOT RECOMMENDED

DOI:10.17504/protocols.io.bb5piq5n

Type: Protocol

Proper Citation

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bb5piq5n>

Authors: Judy Northill, Ian Mackay

Summary: NOT RECOMMENDED The sensitivity of the assay has been found to be lower than expected and we no longer recommend it be used. We do recommend the ORF1ab assay (Novel coronavirus (2019-nCoV) real-time RT-PCR ORF1ab 2020) or the E gene assay by Corman et al. (Protocol v2-1) A real-time RT-PCR to designed to detect the "novel Wuhan" betacoronavirus. Based on sequence MN908947 made available by Professor Yong-Zhen Zhang, Fudan University, Shanghai, China. The target region encodes the nucleocapsid (N). Not tested on wild-type virus (as of 25Jan2020), it is expected to be capable of detecting Wuhan virus, bat-like SARS and SARS virus. Limit of detection not yet determined. A single 1 mismatch at probe-binding site identified with the BetaCoV/USA/CA1/2020|EPI_ISL_406034 variant of 2019-nCoV (as of 29JAN2020). Probe is in the 3'-5' (reverse complement) direction. A real-time RT-PCR to designed to detect the "novel Wuhan" betacoronavirus. Based on sequence MN908947 made available by Professor Yong-Zhen Zhang, Fudan University, Shanghai, China. The target region encodes the nucleocapsid (N). Not tested on wild-type virus (as of 25Jan2020), it is expected to be capable of detecting Wuhan virus, bat-like SARS and SARS virus. Limit of detection not yet determined. A single 1 mismatch at probe-binding site identified with the BetaCoV/USA/CA1/2020|EPI_ISL_406034 variant of 2019-nCoV (as of 29JAN2020). Probe is in the 3'-5' (reverse complement) direction. Notes: Assay is optimised (as of 24Jan2020). A final name for this virus has not been decided (as of 25Jan2020).

Affiliations: Public Health Virology, Forensic and Scientific Services, Public Health Virology, Forensic and Scientific Services

Version: 3

Publication Date: 2020

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