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(71) Applicant: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way,
#20-10 Connexis North Tower, Singapore 138632 (SG).

(72) Inventors: **GOH, Yun Shan**; c/o Singapore Immunology Network, 8A, Immunos, Biomedical Grove, #03-15, Singapore 138648 (SG). **RENIA, Laurent**; c/o Singapore Immunology Network, 8A, Immunos, Biomedical Grove, #03-15, Singapore 138648 (SG). **NG, Lisa Fong Poh**; c/o Singapore Immunology Network, 8A, Immunos, Biomedical Grove, #03-15, Singapore 138648 (SG).

(74) Agent: **DONALDSON & BURKINSHAW LLP**; 24 Raffles Place, #15-00 Clifford Centre, Singapore 048621 (SG).

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(54) Title: A METHOD OF DETECTING SARS-COV2 ANTIBODIES AND RELATED PRODUCTS

(57) Abstract: There is provided a method of identifying/characterising coronavirus infection in a human subject. In a specific embodiment, the method comprising contacting a serum sample from the subject with an isolated host cell expressing a nucleotide that encodes for a codon optimised gene for SARS-CoV-2 spike protein (S protein); and detecting a binding of an antibody or an antigen-binding fragment thereof to said host cell using a flow cytometry and a labelled anti-human secondary antibody. Also disclosed is a method of identifying a subject having immunity for coronavirus, especially SARS-CoV-2 wherein a sample from a subject is incubated with said cell and is detected using the flow cytometry and the labelled anti-human secondary antibody. Nucleic acid encoding a SARS-CoV-2 S protein, viral vectors and host cells thereof are also disclosed.



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