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(71) Applicants: **NANYANG TECHNOLOGICAL UNIVERSITY** [SG/SG]; 50 Nanyang Avenue, Singapore 639798 (SG). **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North Tower, Singapore 138632 (SG).

(72) Inventors: **TAN, Meng How**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). **OOI, Kean Hean**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). **TAY, Jie Wen Douglas**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). **TEO, Seok Yee**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).

(74) Agent: **VIERING, JENTSCHURA & PARTNER LLP**; P.O. Box 1088, Rochor Post Office, Rochor Road, Singapore 911833 (SG).

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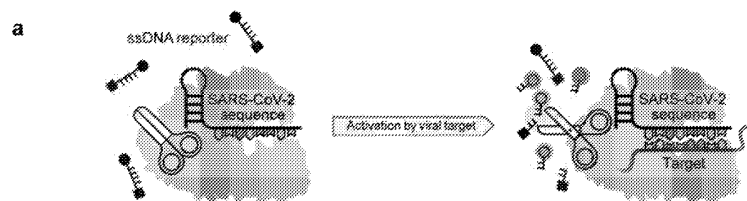


Figure 1

(57) Abstract: The present invention is in the field of molecular diagnostics and is directed to the detection of target nucleic acids in a sample using a modified CRISPR-Dx system, typically with prior amplification of the target. The modified CRISPR-Dx system comprising an engineered E174R/S542R/K548R variant of AsCas12a, wherein when get activated indiscriminately cleaves at least one detection reagent to generate signal. In one embodiment, the target nucleic acid is SARS-CoV-2 RNA.



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