**Supplementary 1.** Examples of coronavirus disease 2019 (COVID-19) diagnostic kits currently being used in United States and South Korea

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| --- | --- | --- | --- | --- | --- | --- |
| Manufacturer | Product Name | Date of Approval | Gene 1 | Gene 2 | Gene 3 | Gene 4 |
| Roche | Cobas® SARS-CoV-2 kit | Mar 13th, 2020 | E gene |  |  | ORF1ab gene |
| Kogene Biotech | Powercheck 2019-nCoVReal-time kit | Feb 4th, 2020 | E gene | RdRp gene |  |  |
| Seegene | Allplex 2019-nCoV assay | Feb 12th, 2020 | E gene | RdRp gene | N gene |  |
| SolGent | DiaPlexQ NovelCoronavirus 2019-nCoV Detection kit | Feb 27th, 2020 |  |  | N gene | ORF1a gene |
| SD Biosensor | STANDARD M n-CoV real-time Detection kit | Feb 2nd, 2020 | E gene | RdRp gene |  |  |
| BioSewoom | Real-Q 2019-nCoV detection kit | Mar 15th, 2020 | E gene | RdRp gene |  |  |