**Table S1:**

**Primers and probes that have been recommended by other institutions to perform rRT-PCR and detect SARS-CoV-2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene rget** | **Description** | **Oligonucleotide Sequence (5’>3’)** | **Label** | **Institution** |
| N gene | N-Sarbeco- Forward Primer | CACATTGGCACCCGCAATC | None | Tib-Molbiol, Germany43 |
| N-Sarbeco- Reverse Primer | GAGGAACGAGAAGAGGCTTG | None |
| N-Sarbeco- Probe | FAM-ACTTCCTCAAGGAACAACATTGCCA-BBQ | FAM, BBQ |
| RdRp gene | RdRp-SARSr- Forward Primer | GTGARATGGTCATGTGTGGCGG | None |
| RdRp-SARSr- Reverse Primer | CARATGTTAAASACACTATTAGCATA | None |
| RdRp-SARSr- Probe1 | FAM-CCAGGTGGWACRTCATCMGGTGATGC-BBQ | FAM, BBQ |
| RdRp-SARSr- Probe2 | FAM-CAGGTGGAACCTCATCAGGAGATGC-BBQ | FAM, BBQ |
| E gene | E-Sarbeco- Forward Primer | ACAGGTACGTTAATAGTTAATAGCGT | None |
| E-Sarbeco- Reverse Primer | ATATTGCAGCAGTACGCACACA  | None |
| E-Sarbeco- Probe | FAM-ACACTAGCCATCCTTACTGCGCTTCG-BBQ | FAM, BBQ |
| ORF1ab | ORF1ab- Forward Primer | CCCTGTGGGTTTTACACTTAA | None | CCDC, China47 |
| ORF1ab- Reverse Primer | ACGATTGTGCATCAGCTGA | None |
| ORF1ab- Probe | FAM-CCGTCTGCGGTATGTGGAAAGGTTATGG-BHQ1 | FAM, BHQ1 |
| E gene | E- Forward Primer | TTCTTGCTTTCGTGGTATTC | None |
| E- Reverse Primer | CACGTTAACAATATTGCAGC | None |
| E- Probe | FAM-GTTACACTAGCCATCCTTACTGCGCTTCGA-BHQ1 | FAM, BHQ1 |
| N gene | N- Forward Primer | GGGGAACTTCTCCTGCTAGAAT | None |
| N- Reverse Primer | CAGACATTTTGCTCTCAAGCTG | None |
| N- Probe | FAM-TTGCTGCTGCTTGACAGATT-BHQ1 | FAM, BHQ1 |
| RdRp gene | RdRp- Forward Primer | GGTCATGTGTGGCGGCTC | None |
| RdRp- Reverse Primer | GCTGTAACAGCTTGACAAATGAAAG | None |
| RdRp- Probe | FAM-CTATATGTTAAACCAGGTGGAAC-BHQ1 | FAM, BHQ1 |
| N gene | 2019-nCOV-N- Forward Primer | AAATTTTGGGGACCAGGAAC | None | NIID, Japan48 |
| 2019-nCOV-N- Reverse Primer | TGGCAGCTGTGTAGGTCAAC | None |
| 2019-nCOV-N- Probe | FAM-ATGTCGCGCATTGGCATGGA-BHQ | FAM, BHQ1 |

The Chinese Center for Disease Control and Prevention (CCDC); National Institute of Infectious Diseases (NIID); FAM: 6-carboxyfluorescein; BBQ: blackberry quencher; BHQ-1: Black Hole Quencher-1;. W is A/T; R is G/A; M is A/C; S is G/C.