

Journal of Molecular Medicine

Diagnosing the novel SARS-CoV-2 by quantitative RT-PCR: variations and opportunities

Horllys G. Barreto¹, Flávio Augusto de P. Milagres¹, Gessi Carvalho de Araújo Santos¹,
Matheus Martins Daúde¹, Vagner A. Benedito^{2*}

¹Molecular Analysis Laboratory, Department of Health Sciences, Faculty of Medicine, Federal University of Tocantins (UFT), Palmas, TO, Brazil; ²Genetics and Developmental Biology Program, West Virginia University, Morgantown, WV, USA

***Corresponding author:**

Email: vagner.benedito@mail.wvu.edu

Suppl. Fig. 1. Partial sequence alignment of the new coronavirus (SARS-CoV2) genome deposited at the GenBank. **(A)** Partial alignment of the N gene. **(B)** Partial alignment of the ORF1ab sequence. The colors blue, red and green of the lines correspond to the forward and reverse primers and the probe, respectively as recommended by the CDC/China.

A

```

SARS-CoV2 - China/Wuhan-Hu-1 : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Japan : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - South Korea : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Nepal : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - USA : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Viet Nam : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Australia : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Taiwan : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Italy : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - India : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Sweden : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Spain : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Brazil : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630
SARS-CoV2 - Pakistan : ATCACGTAGTCGCAACAGTTCCAAGAAATCAACTCCAGGCAGCAGTAGGGGAACTTCTCCTGCTAGAATG : 630

```

```

SARS-CoV2 - China/Wuhan-Hu-1 : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Japan : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - South Korea : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Nepal : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - USA : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Viet Nam : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Australia : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Taiwan : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Italy : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - India : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Sweden : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Spain : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Brazil : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700
SARS-CoV2 - Pakistan : GCTGGCAATGGCGGTGATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAAGCTTGAGAGCAAAA : 700

```

```

SARS-CoV2 - China/Wuhan-Hu-1 : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Japan : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - South Korea : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Nepal : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - USA : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Viet Nam : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Australia : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Taiwan : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Italy : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - India : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Sweden : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Spain : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Brazil : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770
SARS-CoV2 - Pakistan : TGCTGGTAAAGGCCAACAAACAAGGCCAAACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAA : 770

```

```

SARS-CoV2 - China/Wuhan-Hu-1 : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Japan : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - South Korea : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Nepal : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - USA : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Viet Nam : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Australia : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Taiwan : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Italy : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - India : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Sweden : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Spain : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Brazil : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840
SARS-CoV2 - Pakistan : GCCTCGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAAGCTTTCGGCAGACGTGGTCCAGAA : 840

```


Suppl. Fig. 2. Partial sequence alignment of the new coronavirus (SARS-CoV2) genome deposited at the GenBank. **(A)** Partial alignment of the E gene. **(B)** Partial alignment of the RdRp gene. The colors blue, red and green of the lines correspond to the forward and reverse primers and the probe, respectively, as recommended by the Institut Pasteur /France.

A

```

                                ACAGGTACGTTAATAGTTAATAGCGT
SARS-CoV2 - China/Wuhan-Hu-1 : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Japan : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - South Korea : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Nepal : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - USA : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Viet Nam : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Australia : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Taiwan : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Italy : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - India : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Sweden : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Spain : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Brazil : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C
SARS-CoV2 - Pakistan : ATGTACTCATTGCTTTTCGGAAGAGACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTCTTGCTTTCC : 7C

```

```

                                ACACATAGCCATCCTTACTGCGCTTCG ATATTGCAGCAGTACGCACACA
SARS-CoV2 - China/Wuhan-Hu-1 : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Japan : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - South Korea : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Nepal : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - USA : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Viet Nam : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Australia : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Taiwan : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Italy : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - India : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Sweden : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Spain : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Brazil : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C
SARS-CoV2 - Pakistan : TGGTATTCTTGCTAGTTACACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGCAATATTGT : 14C

```

```

SARS-CoV2 - China/Wuhan-Hu-1 : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Japan : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - South Korea : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Nepal : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - USA : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Viet Nam : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Australia : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Taiwan : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Italy : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - India : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Sweden : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Spain : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Brazil : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210
SARS-CoV2 - Pakistan : TAACGTGAGTCTTGTA AAAACCTTCTTTTACGTTTACTCTCGTGTAAAAATCTGAATCTTCTAGAGTT : 210

```

```

SARS-CoV2 - China/Wuhan-Hu-1 : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Japan : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - South Korea : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Nepal : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - USA : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Viet Nam : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Australia : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Taiwan : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Italy : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - India : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Sweden : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Spain : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Brazil : CCTGATCTTCTGGTCTAA : 228
SARS-CoV2 - Pakistan : CCTGATCTTCTGGTCTAA : 228

```

B

SARS-CoV2 - China/Wuhan-Hu-1 : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Japan : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - South Korea : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Nepal : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - USA : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Viet Nam : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Australia : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Taiwan : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Italy : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - India : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Sweden : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Spain : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Brazil : AATGTTCAACTAGTGA... 12390
SARS-CoV2 - Pakistan : AATGTTCAACTAGTGA... 12390

ATGAGCTTAGTCCTGTG AGATGCTT
SARS-CoV2 - China/Wuhan-Hu-1 : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Japan : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - South Korea : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Nepal : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - USA : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Viet Nam : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Australia : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Taiwan : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Italy : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - India : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Sweden : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Spain : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Brazil : TTAAGGGCAATTCGCTG... 12460
SARS-CoV2 - Pakistan : TTAAGGGCAATTCGCTG... 12460

GTGCTGCCGTTA CTCCTTTGTGTGTT
SARS-CoV2 - China/Wuhan-Hu-1 : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Japan : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - South Korea : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Nepal : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - USA : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Viet Nam : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Australia : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Taiwan : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Italy : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - India : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Sweden : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Spain : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Brazil : GTGCTGCCGTTACTACA... 12530
SARS-CoV2 - Pakistan : GTGCTGCCGTTACTACA... 12530

GT
SARS-CoV2 - China/Wuhan-Hu-1 : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Japan : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - South Korea : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Nepal : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - USA : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Viet Nam : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Australia : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Taiwan : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Italy : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - India : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Sweden : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Spain : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Brazil : AGGTAGTGTGACTTGC... 12600
SARS-CoV2 - Pakistan : AGGTAGTGTGACTTGC... 12600

AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - China/Wuhan-Hu-1 : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Japan : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - South Korea : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Nepal : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - USA : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Viet Nam : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Australia : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Taiwan : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Italy : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - India : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Sweden : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Spain : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Brazil : AGCCCAAGCTTTGTA... 13790
SARS-CoV2 - Pakistan : AGCCCAAGCTTTGTA... 13790

GGTAAGTGGTATGATTCG TCATACAAACCCAGCCAGG
SARS-CoV2 - China/Wuhan-Hu-1 : ACATPAGATAATCA... 13860
SARS-CoV2 - Japan : ACATPAGATAATCA... 13860
SARS-CoV2 - South Korea : ACATPAGATAATCA... 13860
SARS-CoV2 - Nepal : ACATPAGATAATCA... 13860
SARS-CoV2 - USA : ACATPAGATAATCA... 13860
SARS-CoV2 - Viet Nam : ACATPAGATAATCA... 13860
SARS-CoV2 - Australia : ACATPAGATAATCA... 13860
SARS-CoV2 - Taiwan : ACATPAGATAATCA... 13860
SARS-CoV2 - Italy : ACATPAGATAATCA... 13860
SARS-CoV2 - India : ACATPAGATAATCA... 13860
SARS-CoV2 - Sweden : ACATPAGATAATCA... 13860
SARS-CoV2 - Spain : ACATPAGATAATCA... 13860
SARS-CoV2 - Brazil : ACATPAGATAATCA... 13860
SARS-CoV2 - Pakistan : ACATPAGATAATCA... 13860

CTGGTCAAGGTTAATATAGG
SARS-CoV2 - China/Wuhan-Hu-1 : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Japan : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - South Korea : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Nepal : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - USA : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Viet Nam : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Australia : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Taiwan : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Italy : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - India : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Sweden : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Spain : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Brazil : GTGGAGTCCCGTGTG... 13930
SARS-CoV2 - Pakistan : GTGGAGTCCCGTGTG... 13930

TCGACAGTCCAGCTG... 14000
SARS-CoV2 - China/Wuhan-Hu-1 : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Japan : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - South Korea : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Nepal : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - USA : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Viet Nam : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Australia : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Taiwan : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Italy : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - India : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Sweden : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Spain : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Brazil : TCGACAGTCCAGCTG... 14000
SARS-CoV2 - Pakistan : TCGACAGTCCAGCTG... 14000

Suppl. Fig. 3. Partial sequence alignment of the new coronavirus (SARS-CoV2) genome deposited at the GenBank. **(A)** Partial alignment of the E gene. **(B)** Partial alignment of the RdRp gene. The colors blue, red and green of the lines correspond to the forward and reverse primers and the probe, respectively, as recommended by Charité - Universitätsmedizin Berlin/Germany.

A

	ACAGGTACGTTAATAGTTAATAGCGT	
SARS-CoV2 - China/Wuhan-Hu-1	ATGTA	70
SARS-CoV2 - Japan	ATGTA	70
SARS-CoV2 - South Korea	ATGTA	70
SARS-CoV2 - Nepal	ATGTA	70
SARS-CoV2 - USA	ATGTA	70
SARS-CoV2 - Viet Nam	ATGTA	70
SARS-CoV2 - Australia	ATGTA	70
SARS-CoV2 - Taiwan	ATGTA	70
SARS-CoV2 - Italy	ATGTA	70
SARS-CoV2 - India	ATGTA	70
SARS-CoV2 - Sweden	ATGTA	70
SARS-CoV2 - Spain	ATGTA	70
SARS-CoV2 - Brazil	ATGTA	70
SARS-CoV2 - Pakistan	ATGTA	70

	ACACTAGCCATCCTTACTGCGCTTCG	ATATTGCAGCAGTACGCACACA	
SARS-CoV2 - China/Wuhan-Hu-1	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Japan	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - South Korea	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Nepal	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - USA	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Viet Nam	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Australia	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Taiwan	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Italy	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - India	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Sweden	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Spain	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Brazil	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140
SARS-CoV2 - Pakistan	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	TGGTATTCTGCTAGTTACACTAGCCATCCTTACTGCGG	140

SARS-CoV2 - China/Wuhan-Hu-1	TAA	210
SARS-CoV2 - Japan	TAA	210
SARS-CoV2 - South Korea	TAA	210
SARS-CoV2 - Nepal	TAA	210
SARS-CoV2 - USA	TAA	210
SARS-CoV2 - Viet Nam	TAA	210
SARS-CoV2 - Australia	TAA	210
SARS-CoV2 - Taiwan	TAA	210
SARS-CoV2 - Italy	TAA	210
SARS-CoV2 - India	TAA	210
SARS-CoV2 - Sweden	TAA	210
SARS-CoV2 - Spain	TAA	210
SARS-CoV2 - Brazil	TAA	210
SARS-CoV2 - Pakistan	TAA	210

SARS-CoV2 - China/Wuhan-Hu-1	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Japan	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - South Korea	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Nepal	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - USA	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Viet Nam	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Australia	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Taiwan	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Italy	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - India	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Sweden	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Spain	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Brazil	CCTGATCTTCTGGTCTAA	228
SARS-CoV2 - Pakistan	CCTGATCTTCTGGTCTAA	228

Suppl. Fig. 4. Partial sequence alignment of the new coronavirus (SARS-CoV2) genome deposited at the GenBank. **(A)** Partial alignment of the N gene. **(B)** Partial alignment of the NSP14 gene. The colors blue, red and green of the lines correspond to the forward and reverse primers and the probe, respectively, as recommended by the University of Hong Kong.

A

	<u>TAATCAGACAAGGAACTGATTA</u>	<u>CCGCAAA</u>	
SARS-CoV2 - China/Wuhan-Hu-1	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Japan	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - South Korea	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Nepal	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - USA	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Viet Nam	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Australia	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Taiwan	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Italy	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - India	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Sweden	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Spain	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Brazil	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910
SARS-CoV2 - Pakistan	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAATCAGACAAGGAACTGATTACAAAACATTGGCCGCAAAA		: 910

	<u>TTGCACAATTTGC</u>	<u>CGAAGGTGTGACTTCCAT</u>	
SARS-CoV2 - China/Wuhan-Hu-1	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Japan	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - South Korea	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Nepal	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - USA	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Viet Nam	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Australia	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Taiwan	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Italy	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - India	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Sweden	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Spain	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Brazil	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980
SARS-CoV2 - Pakistan	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTCGGAATGTCGCGCATTTGGCATGGAAGTTCACACCTTC		: 980

	<u>G</u>	
SARS-CoV2 - China/Wuhan-Hu-1	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Japan	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - South Korea	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Nepal	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - USA	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Viet Nam	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Australia	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Taiwan	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Italy	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - India	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Sweden	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Spain	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Brazil	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Pakistan	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050

SARS-CoV2 - China/Wuhan-Hu-1	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Japan	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - South Korea	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Nepal	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - USA	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Viet Nam	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Australia	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Taiwan	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Italy	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - India	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Sweden	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Spain	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Brazil	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120
SARS-CoV2 - Pakistan	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAGA	: 1120

B

TGGGGVTTACRGTTAACCT

SARS-CoV2 - China/Wuhan-Hu-1 : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Japan : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - South Korea : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Nepal : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - USA : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Viet Nam : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Australia : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Taiwan : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Italy : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - India : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Sweden : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Spain : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Brazil : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550
 SARS-CoV2 - Pakistan : TCTATAATCCGTTTATGATTGATGTTCAACAATGGGGTTTTACAGTAACCTACAAAGCAACCATGATCT : 18550

TAGTTGTGATGCWATCATGACTAG

SARS-CoV2 - China/Wuhan-Hu-1 : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Japan : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - South Korea : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Nepal : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - USA : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Viet Nam : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Australia : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Taiwan : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Italy : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - India : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Sweden : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Spain : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Brazil : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620
 SARS-CoV2 - Pakistan : GTATTGTCAAGTCCATGGTAATGCACATGTAGCTAGTTGTGATGCAATCATGACTAGGTGTCTAGCTGTC : 18620

AACRCGTTAACAAAGCACT

SARS-CoV2 - China/Wuhan-Hu-1 : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Japan : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - South Korea : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Nepal : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - USA : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Viet Nam : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Australia : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Taiwan : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Italy : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - India : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Sweden : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Spain : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Brazil : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690
 SARS-CoV2 - Pakistan : CACGAGTGCCTTTGTTAAGCGTGTGACTGGACTATTGAATATCCTATAATGGTGATGAAGTGAAGATTA : 18690

SARS-CoV2 - China/Wuhan-Hu-1 : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Japan : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - South Korea : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Nepal : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - USA : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Viet Nam : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Australia : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Taiwan : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Italy : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - India : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Sweden : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Spain : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Brazil : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760
 SARS-CoV2 - Pakistan : ATGCGGCTGTAGAAAGGTTCAACACATGGTTGTTAAAGCTGCATTATTAGCAGACAAATCCCAGTTCT : 18760

Suppl. Fig. 5. Partial sequence alignment of the new coronavirus (SARS-CoV2) N gene deposited at the GenBank. **(A)** Partial alignment of the N gene. **(B)** Partial alignment of the NSP14 gene. The colors blue, red and green of the lines correspond to the forward and reverse primers and the probe, respectively, as recommended by the National Institute of Infectious Diseases, Department of Virology III/Japan.

	<u>AAATTTGGGGACCAGGAAC</u>	
SARS-CoV2 - China/Wuhan-Hu-1	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Japan	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - South Korea	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Nepal	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - USA	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Viet Nam	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Australia	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Taiwan	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Italy	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - India	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Sweden	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Spain	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Brazil	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
SARS-CoV2 - Pakistan	CAAACCCAAAGGAAATTTGGGGACCAGGAACATAACAGACAAGGAACTGATTACAAACATTTGGCCGCAAA	: 910
	<u>ATGTCGCGCATTTGGCATGGA</u>	
SARS-CoV2 - China/Wuhan-Hu-1	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Japan	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - South Korea	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Nepal	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - USA	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Viet Nam	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Australia	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Taiwan	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Italy	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - India	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Sweden	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Spain	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Brazil	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
SARS-CoV2 - Pakistan	TTGCACAATTTGCCCCACGGCTTCAGCGTTCCTTCGGAATGTCGCGCATTTGGCATGGAAGTCACACCTTC	: 980
	<u>TGGCAGCTGTGTAGGTCAAC</u>	
SARS-CoV2 - China/Wuhan-Hu-1	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Japan	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - South Korea	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Nepal	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - USA	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Viet Nam	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Australia	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Taiwan	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Italy	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - India	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Sweden	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Spain	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Brazil	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
SARS-CoV2 - Pakistan	GGGAACGTGGTTGACCTACACAGGTGCCATCAAATTTGGATGACAAAGATCCAAATTTCAAAGATCAAGTC	: 1050
	<u>ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA</u>	
SARS-CoV2 - China/Wuhan-Hu-1	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Japan	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - South Korea	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Nepal	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - USA	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Viet Nam	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Australia	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Taiwan	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Italy	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - India	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Sweden	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Spain	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Brazil	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120
SARS-CoV2 - Pakistan	ATTTTGCTGAATAAGCATATTGACGCATACAAAACATTTCCACCAACAGAGCCTAAAAAGGACAAAAAGA	: 1120

Suppl. Fig. 6. Partial sequence alignment of the new coronavirus (SARS-CoV2) N gene deposited at the GenBank. **(A)** Partial alignment of the N gene. **(B)** Partial alignment of the NSP14 gene. The colors blue, red and green of the lines correspond to the forward and reverse primers and the probe, respectively, as recommended by the National Institute of Health/Thailand.

		CGTTTGGTGACCCTCAGAT CAA	
SARS-CoV2 - China/Wuhan-Hu-1	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Japan	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - South Korea	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Nepal	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - USA	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Viet Nam	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Australia	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Taiwan	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Italy	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - India	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Sweden	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Spain	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Brazil	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
SARS-CoV2 - Pakistan	:	ATGCTGATAATGGACCCCAAAATCAGCGAAATGCACCCCGCATTACGTTTGGTGGACCCCTCAGATTCAA	: 70
		CTGGCAGTAACCA CCCCACTGCGTTCTCCATT	
SARS-CoV2 - China/Wuhan-Hu-1	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Japan	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - South Korea	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Nepal	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - USA	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Viet Nam	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Australia	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Taiwan	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Italy	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - India	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Sweden	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Spain	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Brazil	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Pakistan	:	CTGGCAGTAACCCAGAAATGGAGAACCGAGTGGGGCGCGATCAAAAACAACGTCGGCCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - China/Wuhan-Hu-1	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Japan	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - South Korea	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Nepal	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - USA	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Viet Nam	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Australia	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Taiwan	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Italy	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - India	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Sweden	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Spain	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Brazil	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - Pakistan	:	TAATACTGCGTCTTGGTTCACCGCTCTCACTCAACATGGCAAGGAAGACCTTAAATTCCTCGAGGACAA	: 210
SARS-CoV2 - China/Wuhan-Hu-1	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Japan	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - South Korea	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Nepal	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - USA	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Viet Nam	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Australia	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Taiwan	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Italy	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - India	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Sweden	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Spain	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Brazil	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280
SARS-CoV2 - Pakistan	:	GGCGTTCCAATTAACACCAATAGCAGTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAGACGAA	: 280

Suppl. Fig. 7. Partial sequence alignment of the new coronavirus (SARS-CoV2) N gene deposited at the GenBank. **(A)** Partial alignment of the N gene. **(B)** Partial alignment of the NSP14 gene. The colors blue, red and green of the lines correspond to the forward and reverse primers and the probe, respectively, as recommended by the Centers for Disease Control and Prevention (CDC)/USA.

	GACCCCAAAATGACGAAAT ACCCCGCATTACGTTTGGTGACC TCTGGTTAC	
SARS-CoV2 - China/Wuhan-Hu-1	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Japan	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - South Korea	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Nepal	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - USA	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Viet Nam	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Australia	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Taiwan	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Italy	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - India	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Sweden	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Spain	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Brazil	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
SARS-CoV2 - Pakistan	ATGCTGATAATGGACCCCAAAATGACGAAATGCCCCGCATTACGTTTGGTGACCCTCAGATTCAA	: 70
	TGCCAGTTGAATCTG	
SARS-CoV2 - China/Wuhan-Hu-1	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Japan	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - South Korea	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Nepal	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - USA	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Viet Nam	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Australia	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Taiwan	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Italy	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - India	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Sweden	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Spain	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Brazil	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
SARS-CoV2 - Pakistan	CTGGCAGTAACCAAGATGGAGAACGAGTGGGGGGGATCAAAAACAGCTCGGCCCAAGGTTTACCCAA	: 140
	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	
SARS-CoV2 - China/Wuhan-Hu-1	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Japan	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - South Korea	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - USA	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Viet Nam	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Australia	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Taiwan	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Italy	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - India	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Sweden	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Spain	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Brazil	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
SARS-CoV2 - Pakistan	TAATACTGGCTCTGGTTACCCGCTCTCACTCAACATGGCAAGGAAGACTTAAATCCCTCGAGGACAA	: 210
	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	
SARS-CoV2 - China/Wuhan-Hu-1	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Japan	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - South Korea	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Nepal	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - USA	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Viet Nam	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Australia	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Taiwan	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Italy	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - India	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Sweden	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Spain	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Brazil	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
SARS-CoV2 - Pakistan	GGCGTCCCAATTAACCAATAGCACTCCAGATGACCAAAATGGCTACTACCGAAGAGCTACCAAGCGAA	: 280
	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	
SARS-CoV2 - China/Wuhan-Hu-1	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Japan	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - South Korea	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Nepal	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - USA	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Viet Nam	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Australia	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Taiwan	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Italy	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - India	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Sweden	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Spain	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Brazil	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
SARS-CoV2 - Pakistan	TTCTGGTGGTACCGTAAATGAAAGATCTCAGTCCAGATGGTATTTCTACTACCTAGGAATGGGCC	: 350
	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	
SARS-CoV2 - China/Wuhan-Hu-1	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Japan	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - South Korea	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Nepal	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - USA	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Viet Nam	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Australia	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Taiwan	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Italy	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - India	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Sweden	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Spain	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Brazil	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
SARS-CoV2 - Pakistan	AGGAGCTGGACTTCCTTATGGTCTAACAAAGA GGCATCATATGGTTGCACTGAGGAGSCTTGAAT	: 420
	ACACCAAAA AYCACATTGGCACCCGCAATCTGT TGTAGCACGATTGCAGCATTG	
SARS-CoV2 - China/Wuhan-Hu-1	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Japan	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - South Korea	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Nepal	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - USA	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Viet Nam	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Australia	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Taiwan	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Italy	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - India	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Sweden	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Spain	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Brazil	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490
SARS-CoV2 - Pakistan	ACACCAAAAGATCACATGGCACCCGCAATCTGTAAACAATGCTGCAATGTGTGCAACTTCTCTCAG	: 490

