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Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

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Table S1. Primers used for 5' and 3' end sequencing of the 2019-nCoV.

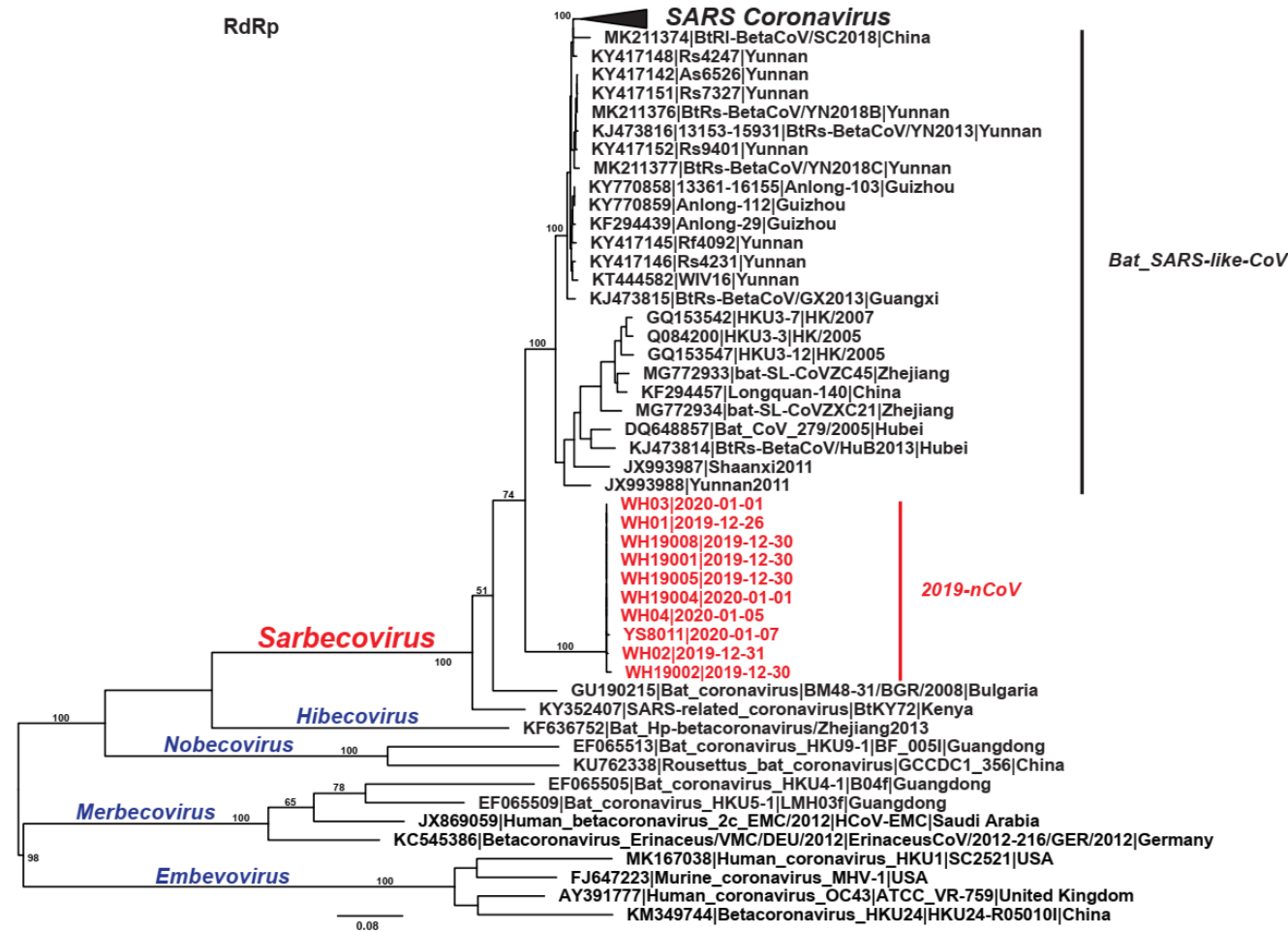| Primer name	Primer sequence(5'-3')
5'raceR1	CCATTGAAGGTGTCAAATTTC
5'raceR2	GACCATGAGGTGCAGTTCGA
3'raceF1	GCTGGTTCCTATAAAGATTGG
3'raceF2	CAGCAAACTGTGACTCTTCTTC

Figure S1. Phylogenetic analysis of the complete RdRp gene of 2019-nCoV and representative viruses of the subgenus *Sarbecoronavirus*.
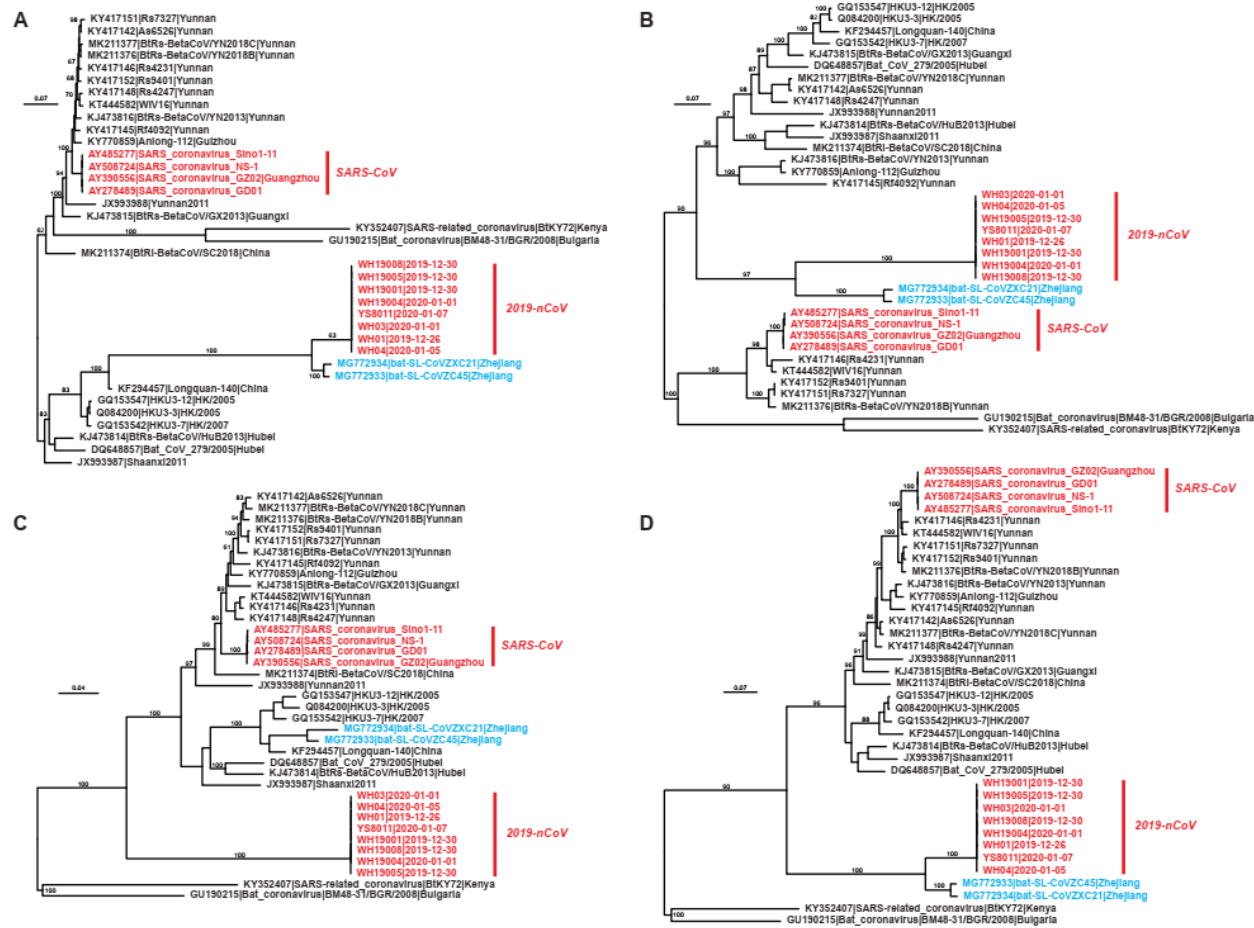
Figure S2. Phylogenetic analysis of separate gene regions of 2019-nCoV and representative viruses of the subgenus *Sarbecoronavirus*.

Panel A: 1a gene; panel B: spike; panel C: 1b gene; panel D: the gene regions excluding 1b. All the trees are midpoint rooted.

Figure S3. Sequence alignment of RBDs from 2019-nCoV related beta-CoVs.