Tree scale: 0.1 $\,\vdash\!\!\!\!-\!\!\!\!\!-$ WIGEON COV HKU20 ROUSETTUS BAT COV GCCDC1 356 BAT COV HKU9-1 CORONAVIRUS ACCOV-JC34 - LUCHENG RN RAT COV LUCHENG-19 BTMR-ALPHACOV/SAX2011 BTRF-ALPHACOV/HUB2013 - ROUSETTUS BAT COV HKU10 BAT COV CDPHE15/USA/2006 BTNV-ALPHACOV/SC2013 BTRF-ALPHACOV/YN2012 BAT COV HKU2 BAT COV HKU8 BAT COV 1A SCOTOPHILUS BAT COV 512 NL63-RELATED BAT COV STRAIN BTKYNL63-9A HUMAN CORONAVIRUS NL63 CAMEL ALPHACOV CAMEL/RIYADH/RY141/2015 HUMAN COV 229E FERRET COV FRCOV-NL-2010 MINK COV STRAIN WD1127 PORCINE EPIDEMIC DIARRHEA VIRUS TRANSMISSIBLE GASTROENTERITIS VIRUS SWINE ENTERIC COV STRAIN ITALY/213306/2009 FELINE INFECTIOUS PERITONITIS VIRUS BELUGA WHALE COV SW1 HUMAN COV HKU1 BETACOV HKU24 STRAIN HKU24-R05005I RABBIT COV HKU14 HUMAN COV OC43 STRAIN ATCC VR-759 **BOVINE COV** RAT COV PARKER MOUSE HEPATITIS VIRUS STRAIN MHV-A59 C12 MUTANT BAT HP-BETACOV/ZHEJIANG2013 NIGHT-HERON COV HKU19 COMMON-MOORHEN COV HKU21 PORCINE COV HKU15 STRAIN HKU15-155 SPARROW COV HKU17 MAGPIE-ROBIN COV HKU18 MUNIA COV HKU13-3514 - WHITE-EYE COV HKU16 THRUSH COV HKU12-600 BULBUL COV HKU11-934 - TURKEY COV AVIAN INFECTIOUS BRONCHITIS VIRUS BETACOV ERINACEUSCOV/VMC/2012-174/GER/2012 BAT COV PREDICT/PDF-2180 BETACOV ENGLAND 1 MERS MIDDLE EAST RESPIRATORY SYNDROME COV BAT COV HKU5-1 BAT COV HKU4-1 WENCHENG SM SHREW COV XINGGUO-101 BETACOV/WUHAN/WH-02/2019 PANGOLIN-COV-2020 MP789 BAT COV BM48-31/BGR/2008 BETACOV/WUHAN/WH-03/2019 SARS-COV-2/WA2/HUMAN/2020/USA - WIV06 2019-NCOV HKU-SZ-002A 2020 BETACOV/WUHAN/WH-04/2019 BETACOV/FINLAND/1/2020 SARS-COV-2/IQTC04/HUMAN/2020/CHN 2019-NCOV WHU01 SARS-COV-2/IQTC01/HUMAN/2020/CHN WIV07 SARS-COV-2/HU/DP/KNG/19-027 BETACOV/WUHAN/WH-01/2019 BETACOV/JAPAN/AI/I-004/2020 SARS-COV-2/WH-09/HUMAN/2020/CHN SARS-COV-2/HU/DP/KNG/19-020 SARS-COV-2/IQTC02/HUMAN/2020/CHN 2019-NCOV/JAPAN/TY/WK-521/2020 2019-NCOV/JAPAN/TY/WK-501/2020 2019-NCOV/JAPAN/TY/WK-012/2020 2019-NCOV/JAPAN/KY/V-029/2020 BETACOV/HANGZHOU/HZ-1/2020 20COV-1L 2019-NCOV/USA-WI1/2020 SARS COV SARS0COV-2/61-TW/HUMAN/2020/NPL WIV02 BAT COV TG13 SARS-COV-2/CA6/HUMAN/2020/USA SARS-COV-2/IQTC03/HUMAN/2020/CHN BETACOV/WUHAN/WH19002/2019 WIV05 2019-NCOV/USA-IL1/2020 2019-NCOV/USA-CA1/2020 SARS-COV-2/IL2/HUMAN/2020/USA BETACOV/KOREA/SNU01/2020 SARS-COV-2/01/HUMAN/2020/SWE 2019-NCOV/USA-TX1/2020 2019-NCOV/USA-MA1/2020 BETACOV/AUSTRALIA/VIC01/2020 SARS-COV-2/YUNNAN-01/HUMAN/2020/CHN SARS-COV-2/233/HUMAN/2020/CHN SARS-COV-2/105/HUMAN/2020/CHN 2019-NCOV/USA-CA7/2020 2019-NCOV HKU-SZ-005B 2020 2019-NCOV/USA-AZ1/2020 2019-NCOV/USA-WA1/2020 TAIWAN/NTU01/2020 SARS-COV-2/SP02/HUMAN/2020/BRA BETACOV/WUHAN/IPBCAMS-WH-01/2019 2019-NCOV/USA-CA3/2020 BETACOV/TAIWAN/NTU02/2020 BETACOV/WUHAN/WH19004/2020 2019-NCOV/USA-CA2/2020 2019-NCOV/USA-CA5/2020 BETACOV/WUHAN/IPBCAMS-WH-02/2019 BETACOV/WUHAN/WH19005/2019 BETACOV/WUHAN/IPBCAMS-WH-03/2019 2019-NCOV/USA-CA9/2020 BETACOV/WUHAN/IPBCAMS-WH-05/2020 BETACOV/WUHAN/WH19008/2019 2019-NCOV/USA-CA8/2020 BETACOV/WUHAN/YS8011/2020 BETACOV/WUHAN/IPBCAMS-WH-04/2019

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