0.0059 Cl|Query\_7023-2511-8273-OK017858.1-Sarbecovirus-sp.-isolate-YN2020H Cl|Query\_6981-2719-8484-KY417145.1-Bat-SARS-like-coronavirus-isolate-Rf4092 552 | Icl|Query\_6961-2719-8484-KY417152.1-Bat-SARS-like-coronavirus-isolate-Rs9401 ppg8 lcl|Query\_6967-2719-8484-KY417147.1-Bat-SARS-like-coronavirus-isolate-Rs4237 Icl|Query\_6928-2719-8484-KF367457.1-Bat-SARS-like-coronavirus-WIV1 lcl|Query\_6966-2719-8484-KY417149.1-Bat-SARS-like-coronavirus-isolate-Rs4255 23, Icl|Query\_6968-2719-8484-KY417143.1-Bat-SARS-like-coronavirus-isolate-Rs4081 Icl|Query\_6927-2719-8484-KY417150.1-Bat-SARS-like-coronavirus-isolate-Rs4874 lcl|Query\_6965-2719-8484-KY417148.1-Bat-SARS-like-coronavirus-isolate-Rs4247 or Icl|Query\_6929-2719-8484-KY417151.1-Bat-SARS-like-coronavirus-isolate-Rs7327 024lcl|Query\_6958-2719-8484-KY417146.1-Bat-SARS-like-coronavirus-isolate-Rs4231 | Icl|Query\_6974-2719-8484-KY417142.1-Bat-SARS-like-coronavirus-isolate-As6526 - Icl|Query\_6988-2708-8473-KY770858.1-Sarbecovirus-sp.-isolate-Anlong-103 Icl|Query\_6930-2718-8483-MK211376.1-Coronavirus-BtRs-BetaCoV/YN2018B | Icl|Query\_6987-2717-8482-MK211377.1-Coronavirus-BtRs-BetaCoV/YN2018C 10<del>42</del> lcl|Query\_7049-2484-8249-KJ473816.1-BtRs-BetaCoV/YN2013 Lcl|Query\_6957-2719-8484-KC881005.1-Bat-SARS-like-coronavirus-RsSHC014 lcl|Query\_7036-2511-8279-OK017855.1-Sarbecovirus-sp.-isolate-YN2020E p<del>p4</del> lcl|Query\_7009-2581-8334-OK017792.1-Sarbecovirus-sp.-isolate-GD2017F D.0183 | Icl|Query\_7041-2558-8320-OK017793.1-Sarbecovirus-sp.-isolate-YN2020A - Icl|Query\_7054-2700-5894-FJ588686.1-Bat-SARS-CoV-Rs672/2006 Lcl|Query\_6969-2720-8485-MZ081379.1-Betacoronavirus-sp.-RsYN03-strain-bat/Yunnan/RsYN03/2019 0.0092 lcl|Query\_6973-2719-8484-MT308984.1-Mutant-SARS-coronavirus-Urbani-clone-SARS-Urbani-MA\_SHC014-spike Icl|Query\_6949-2720-8485-MK062183.1-SARS-coronavirus-Urbani-isolate-icSARS-C7 0.0082 Icl|Query\_6975-2718-8483-KP886808.1-Bat-SARS-like-coronavirus-YNLF\_31C Icl|Query\_7029-2615-8383-JX993988.1-Bat-coronavirus-Cp/Yunnan2011 0.0055 | 0.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0055 | 1.0 0.0072 0.0269 | Icl|Query\_6954-2726-8491-KF569996.1-Rhinolophus-affinis-coronavirus-isolate-LYRa11 0.0156 | Icl|Query\_6971-2720-8485-MZ081377.1-Betacoronavirus-sp.-RmYN07-strain-bat/Yunnan/RmYN07/2020 0.011 | lcl|Query\_7012-2581-8328-OK017836.1-Sarbecovirus-sp.-isolate-JX2021AC 0.0055 lcl|Query\_6998-2581-8340-OK017801.1-Sarbecovirus-sp.-isolate-HB2020D lcl|Query\_7004-2581-8337-OK017802.1-Sarbecovirus-sp.-isolate-HB2020E lcl|Query\_7026-2581-8337-OK017807.1-Sarbecovirus-sp.-isolate-AH2021A 10.0059 h nn 5- Icl|Query\_6979-2716-8475-GQ153542.1-Bat-SARS-coronavirus-HKU3-7 0.0066 lcl|Query\_6984-2716-8463-GQ153547.1-Bat-SARS-coronavirus-HKU3-12 o. Post of the local part of t - lcl|Query\_7001-2581-8337-OK017837.1-Sarbecovirus-sp.-isolate-JX2021C | D22 | Icl|Query\_7034-2581-8337-OK017808.1-Sarbecovirus-sp.-isolate-FJ2021A φρφ18cl|Query\_7015-2581-8337-OK017839.1-Sarbecovirus-sp.-isolate-JX2021J 0.0029 Icl|Query\_7025-2581-8337-OK017838.1-Sarbecovirus-sp.-isolate-JX2021G d.0p18lcl|Query\_7031-2581-8337-OK017844.1-Sarbecovirus-sp.-isolate-JX2021O lcl|Query\_7030-2581-8337-OK017845.1-Sarbecovirus-sp.-isolate-JX2021P 0,0052 ).0<mark>02</mark>4 lcl|Query\_7021-2581-8340-OK017809.1-Sarbecovirus-sp.-isolate-FJ2021D lcl|Query\_7028-2581-8337-OK017811.1-Sarbecovirus-sp.-isolate-FJ2021M 0.0047 0.0056 lcl|Query\_7010-2581-8340-OK017819.1-Sarbecovirus-sp.-isolate-GD2017M 0|0|07|cl|Query\_6999-2581-8340-OK017820.1-Sarbecovirus-sp.-isolate-GD2017N Icl|Query\_7019-2581-8340-OK017812.1-Sarbecovirus-sp.-isolate-GD2016B 0.0089 0.00<del>72</del> lcl|Query\_6993-2633-8392-OM240725.1-Bat-betacoronavirus-isolate-RaCH025 lcl|Query\_6932-2949-8705-MW681002.1-Severe-acute-respiratory-syndrome-related-coronavirus-isolate-Rs56 0.0085 | cl|Query\_7020-2581-8340-OK017823.1-Sarbecovirus-sp.-isolate-GD2017Q 0.0039 0.0053.016 Ucl|Query\_7037-2479-8238-OK017841.1-Sarbecovirus-sp.-isolate-JX2021L 0.0032 lcl|Query\_7038-2479-8238-OK017842.1-Sarbecovirus-sp.-isolate-JX2021M | lcl|Query\_7008-2578-8337-OK017843.1-Sarbecovirus-sp.-isolate-JX2021N 0.bo18cl|Query\_7011-2581-8340-OK017824.1-Sarbecovirus-sp.-isolate-GD2017W 0.0028 lcl|Query\_7002-2581-8340-OK017828.1-Sarbecovirus-sp.-isolate-GD2019E 0.0**p**06lcl|Query\_7003-2581-8340-OK017827.1-Sarbecovirus-sp.-isolate-GD2019D | Lcl|Query\_7000-2581-8343-OK017825.1-Sarbecovirus-sp.-isolate-GD2019A 0.00<del>95</del> lcl|Query\_7005-2581-8337-OK017835.1-Sarbecovirus-sp.-isolate-HN2021F Icl|Query\_7016-2581-8337-OK017834.1-Sarbecovirus-sp.-isolate-HN2021E d.0d43 0.0077 0.0214 | O.0214 0.0153 | Icl|Query\_7018-2581-8328-OK017832.1-Sarbecovirus-sp.-isolate-HN2021C 0.0077 0.011<del>/4</del> lcl|Query\_7013-2581-8328-OK017833.1-Sarbecovirus-sp.-isolate-HN2021D 0 010 60.0061 | lcl|Query\_7022-2581-8328-OK017859.1-Sarbecovirus-sp.-isolate-GX2019A 0.0516 | Icl|Query\_6964-2715-8498-DQ412043.1-Bat-SARS-coronavirus-Rm1 0.0041 0.0179 | Icl|Query\_6989-2659-8415-KJ473814.1-BtRs-BetaCoV/HuB2013 Icl|Query\_6992-2695-8451-MZ328294.1-Jingmen-Rhinolophus-sinicus-betacoronavirus-1 lcl|Query\_7032-2460-8207-OK017846.1-Sarbecovirus-sp.-isolate-SC2018B lcl|Query\_6990-2670-8420-KY770860.1-Sarbecovirus-sp.-isolate-Jiyuan-84 d 054 lcl|Query\_6983-2718-8468-DQ648856.1-Bat-coronavirus-Icl|Query\_6982-2715-8465-DQ412042.1-Bat-SARS-coronavirus-Rf1 0.0074 0.0074 1cl|Query\_7027-2485-8235-KJ473813.1-BtRf-BetaCoV/SX2013 lcl|Query\_6995-2701-8451-ON378802.1-MAG--Severe-acute-respiratory-syndrome-related-coronavirus-isolate-BatCoV\_B20-50 lcl|Query\_7024-2645-8386-JX993987.1-Bat-coronavirus-Rp/Shaanxi2011 lcl|Query\_6952-2704-8493-OL674078.1-Severe-acute-respiratory-syndrome-related-coronavirus-isolate-Rs7921 lcl|Query\_6980-2718-8507-MZ081376.1-Betacoronavirus-sp.-RmYN05-strain-bat/Yunnan/RmYN05/2020 lcl|Query\_6953-2721-8531-MT040335.1-Pangolin-coronavirus-isolate-PCoV\_GX-P5L lcl|Query\_7017-2600-8413-MT121216.1-Pangolin-coronavirus-isolate-MP789 lcl|Query\_6986-2706-8525-OK287355.1-Sarbecovirus-sp.-isolate-BetaCoV\_Yunnan\_Rp\_JCC9\_2020 lcl|Query\_6997-2571-8369-OK017805.1-Sarbecovirus-sp.-isolate-HN2021G 0.0229 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.0134 | 0.013 .po<del>77</del> Icl|Query\_6955-2719-8541-MG772933.1-Bat-SARS-like-coronavirus-isolate-bat-SL-CoVZC45 lcl|Query\_6972-2719-8475-MG772934.1-Bat-SARS-like-coronavirus-isolate-bat-SL-CoVZXC21 0.1045 Icl|Query\_6951-2762-8554-MW251308.1-Bat-coronavirus-RacCS203 0.0006

Comparison of the control of Icl|Query\_6946-2720-8554-HG994856.1-Severe-acute-respiratory-syndrome-related-coronavirus-isolate-H\_SC\_07-genome-assembly Icl|Query\_6945-2720-8554-NC\_045512.2-Severe-acute-respiratory-syndrome-coronavirus-2-isolate-Wuhan-Hu-1 oll|Query\_6994-2577-8414-OK017806.1-Sarbecovirus-sp.-isolate-YN2021 0<del>34</del> lcl|Query\_6956-2720-8551-MZ081381.1-Betacoronavirus-sp.-RpYN06-strain-bat/Yunnan/RpYN06/2020 Icl|Query\_6962-2682-8513-MW703458.1-Sarbecovirus-sp.-isolate-PrC31 0.1137 | Cl|Query\_6976-2707-8505-LC556375.1-Severe-acute-respiratory-syndrome-related-coronavirus-Rc-o319-RNA lcl|Query\_6977-2712-8510-LC663793.1-Sarbecovirus-sp.-Rc-kw8-RNA lcl|Query\_7045-2662-8385-MZ190138.1-Bat-SARS-like-coronavirus-Khosta-2-strain-BtCoV/Khosta-2/Rh/Russia/2020 0.0578 | cl|Query\_7040-2734-8454-MW719567.1-Sarbecovirus-RhGB01 0.048 | lcl|Query\_7055-2645-8344-MZ190137.1-Bat-SARS-like-coronavirus-Khosta-1-strain-BtCoV/Khosta-1/Rh/Russia/2020 0.1336 | Icl|Query\_7044-2716-8409-MT726045.1-Sarbecovirus-sp.-isolate-PREDICT/PRD-0038/AABSMF lcl|Query\_7043-2714-8410-KY352407.1-Severe-acute-respiratory-syndrome-related-coronavirus-strain-BtKY72 lcl|Query\_6918-3828-9008-KF636752.1-Bat-Hp-betacoronavirus/Zhejiang2013 lcl|Query\_6963-3883-8049-MK211379.1-Coronavirus-BtRt-BetaCoV/GX2018 lcl|Query\_7051-2557-8049-MZ293739.1-Rousettus-bat-coronavirus-isolate-PREDICT/GCS-242 lcl|Query\_7053-3875-8059-MZ293756.1-Rousettus-bat-coronavirus-isolate-SBB-943 0.0863 | 0.0863 | 1cl|Query\_7050-3812-8020-MG762674.1-Rousettus-bat-coronavirus-HKU9-isolate-Rousettus-spp/Jinghong/2009 | 1cl|Query\_7048-3895-8043-EF065516.1-Bat-coronavirus-HKU9-4 lcl|Query\_6937-3161-8458-KX108942.1-Middle-East-respiratory-syndrome-coronavirus-isolate-D389/15 0.0177 0.0536 | Call | Query\_6935-3890-8488-KC869678.4-Coronavirus-Neoromicia/PML-PHE1/RSA/2011 0.0215 | Cl|Query\_6942-3877-8484-MF593268.1-Middle-East-respiratory-syndrome-related-coronavirus-strain-Neoromicia/5038 lcl|Query\_6936-3388-6369-ON378807.1-MAG--Middle-East-respiratory-syndrome-related-coronavirus-isolate-BatCoV\_B20-180 lcl|Query\_6941-3670-6366-MG596803.1-Middle-East-respiratory-syndrome-related-coronavirus-isolate-Bat-CoV/P.khulii/ltaly/206645-63/2011 lcl|Query\_6939-3679-6375-MG596802.1-Middle-East-respiratory-syndrome-related-coronavirus-isolate-Bat-CoV/H.savii/ltaly/206645-40/2011 0.1205 lcl|Query\_6940-3448-8394-ON325307.1-Middle-East-respiratory-syndrome-related-coronavirus-isolate-BatCoV/V.murinus/Switzerland/2020 0.0839
0.0668 | Comparison of the control of the co 0.0738 | Icl|Query\_6934-4246-8520-MG021452.1-Middle-East-respiratory-syndrome-related-coronavirus-isolate-NL140422 0.1433 lcl|Query\_6925-4114-8835-MG987421.1-Middle-East-respiratory-syndrome-related-coronavirus-isolate-NL140455 lcl|Query\_6924-3763-6804-KX442564.1-Hypsugo-bat-coronavirus-HKU25-isolate-YD131305 lcl|Query\_6920-5071-8613-MW802581.1-Betacoronavirus-1-isolate-GCCDC3 0.0126 | Cl|Query\_6922-4876-8433-LC494192.1-Bovine-coronavirus-TCG-33-RNA 0.0207 | Icl|Query\_6923-4901-8458-MN514967.1-Dromedary-camel-coronavirus-HKU23-isolate-DcCoV-HKU23/camel/Nigeria/NV1385/2016 | 0.1828 | O.1828 | O. Icl|Query\_6919-5100-8738-MW773844.1-Betacoronavirus-1-strain-GCCDC4 0.0**p**11lcl|Query\_6943-5150-8716-MK167038.1-Human-coronavirus-HKU1-strain-SC2521 0.2224 Icl|Query\_6948-5125-8691-ON128615.1-Human-coronavirus-HKU1-isolate-GZFE18183 p11lcl|Query\_6944-5147-8713-DQ415899.1-Human-coronavirus-HKU1-strain-N22-genotype-C Icl|Query\_6938-5324-8890-DQ415901.1-Human-coronavirus-HKU1-strain-N24-genotype-A 0.1081 | O.1081 | Icl|Query\_6921-4968-8525-MH687968.1-Betacoronavirus-sp.-strain-VZ\_BetaCoV\_16715\_52 lcl|Query\_7047-2479-8238-KJ473815.1-BtRs-BetaCoV/GX2013 S9 Icl|Query\_6970-2719-8478-DQ071615.1-Bat-SARS-coronavirus-Rp3 al | Icl|Query\_7033-2581-8343-OK017829.1-Sarbecovirus-sp.-isolate-GZ2021C 0.0046 lcl|Query\_7035-2581-8343-OK017831.1-Sarbecovirus-sp.-isolate-GZ20211 Icl|Query\_7039-2526-8288-OK017830.1-Sarbecovirus-sp.-isolate-GZ2021H

| Icl|Query\_6985-2720-8485-MK211375.1-Coronavirus-BtRs-BetaCoV/YN2018A | Icl|Query\_6985-2720-8485-MK211375.1-Coronavirus-BtRs-BetaCoV/YN2018A | Icl|Query\_7014-2675-8440-OK287354.1-Sarbecovirus-sp.-isolate-BetaCoV\_Yunnan\_Rs\_KMC6\_2020 | Icl|Query\_6960-2719-8484-KY417144.1-Bat-SARS-like-coronavirus-isolate-Rs4084

0.4