CDS-M - PIP profile Ref: HuCoV2 WH01 2019 100 HuCoV2\_WH01\_2019 ( 100 %) BtRaTG13\_2013\_Yunnan (95.5 %) BtYu-RmYN02\_2019 (94.8 %) 90 BtZC45 (93.4 %) BtZXC21 (93.4%) PIP (100 bp-averaged) PnGu1\_2019 ( 93.3 %) 80 PnGX-P1E\_2017 (91.5 %) PnGX-P2V\_2018 (91.2 %) BtYN2013 (86.1 %) 70 HuSARS-Frankfurt-1\_2003 (85.5 %) Cv007-2004 (85.2 %) BtYN2018B (84.9%) 60 BtGX2013 (84.5%) BtRs4874 (84.8 %) BtHKU3-12 (84.8 %) 50 BtBM48-31 (78 %) 40 30 200 400 600 800

Position