

	WT-S:1C4	BA.5-S:1C4-state 1	BA.5-S:1C4-state 2	BA.5-S:1C4-interface	WT-S:8H12:1C4:3 E2	WT-S:8H12:1C4:3 E2-interface	BA.1-S:8H12:1C4:3 E2	BA.1-S:8H12:1C4:3 E2-interface	BA.2-S:8H12:1C4:3 E2	BA.2-S:8H12:1C4:3 E2-interface	BA.2.75-S:8H12:1C4:3 E2	BA.4/5-S:8H12:1C4:3 E2-state 1	BA.4/5-S:8H12:1C4:3 E2-state 2	XBB-S8H12:1C4:3E2	WT-RBD:1C4:ACE2
Data Collection and processing															
Microscope	Titan Krios G4	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Tecnai F30	Titan Krios G4
Camera	K3	K3	K3	K3	K3	K3	K3	K3	K3	K3	K3	K3	K3	K3	K3
Voltage (kV)	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Electron exposure dose (e/Å²)	48	60	60	60	60	60	60	60	60	60	60	60	60	60	48
Defocus range (µm)	1.0-1.6	1.0-2.2	1.0-2.2	1.0-2.2	1.0-2.0	1.0-2.0	1.3-2.0	1.3-2.0	0.9-1.8	0.9-1.8	1.0-2.2	0.9-1.9	1.1-2.0	1.0-1.6	0.6-1.2
Pixel size (Å)	0.650	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.650
Micrographs (used)	12,823	11,634	11,634	11,634	7,134	7,134	5,389	5,389	10,571	10,571	1,670	4,866	4,866	1,349	6,469
Final particle images (nos.)	91,916	148,009	70,759	148,009	90,363	90,363	286,938	286,938	316,199	316,199	44,969	25,220	31,904	13,808	182,640
Symmetry imposed	C3	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1
Map resolution (Å)	2.33	3.45	3.68	3.82	3.76	3.44	3.95	3.95	3.82	3.90	6.31	4.35	3.90	10.82	2.82
FSC threshold	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
Map sharpening B factor (Å²)	-48.6	-83.9	-72.7	-110.2	-70	-93.3	-132.2	-120.2	-111.3	-129.5	-302.8	-51.6	-43.4	/	-85.9
Validation															
MolProbity score	1.69	/	/	1.95	/	1.58	/	1.81	/	1.73	/	/	/	/	1.88
Poor rotamers (%)	0.00	/	/	0.00	/	0.40	/	0.27	/	0.54	/	/	/	/	0.15
Clashscore	6.92	/	/	7.97	/	3.23	/	5.53	/	4.5	/	/	/	/	8.91
RMS (bonds)	0.0029	/	/	0.0044	/	0.0052	/	0.0067	/	0.0057	/	/	/	/	0.0066
RMS (angles)	0.54	/	/	0.72	/	1.11	/	1.16	/	1.19	/	/	/	/	0.66
Ramachandran plot															
Favored (%)	95.54	/	/	91.22	/	92.64	/	91.24	/	91.59	/	/	/	/	93.90
Allowed (%)	4.46	/	/	8.54	/	7.36	/	8.76	/	8.29	/	/	/	/	6.10
Disallowed (%)	0.00	/	/	0.24	/	0.00	/	0.00	/	0.00	/	/	/	/	0.00