

First (unlabeled) mAb

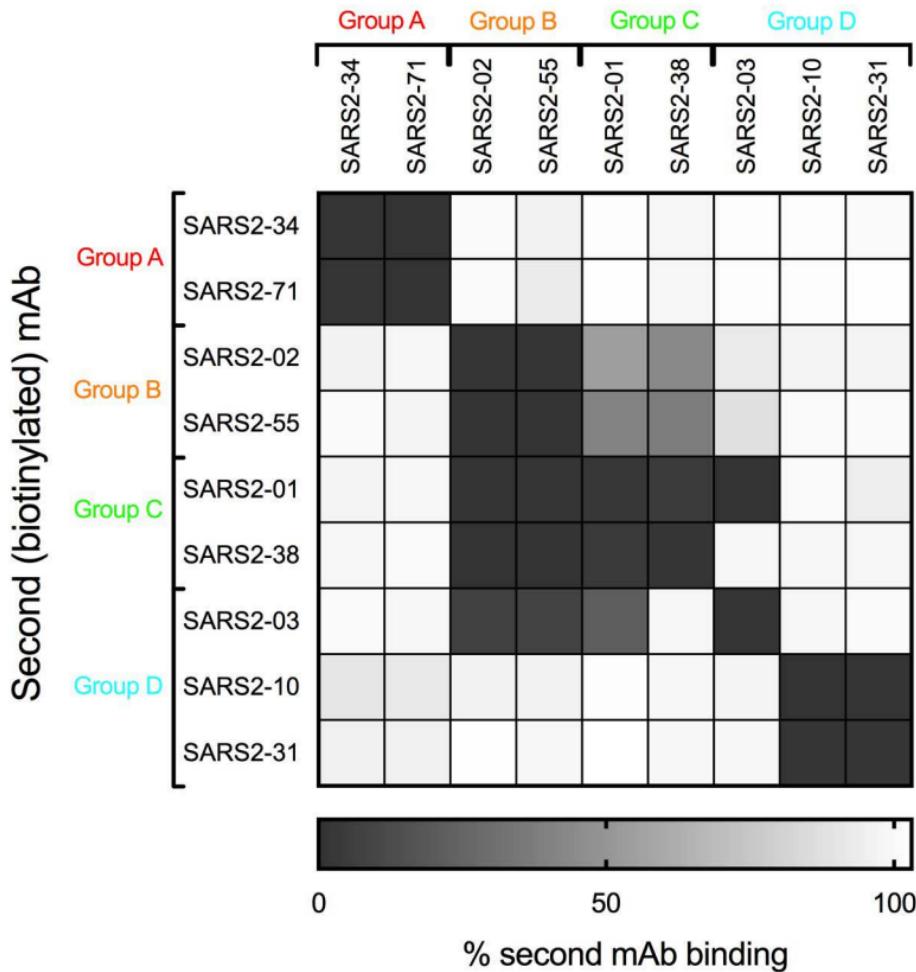
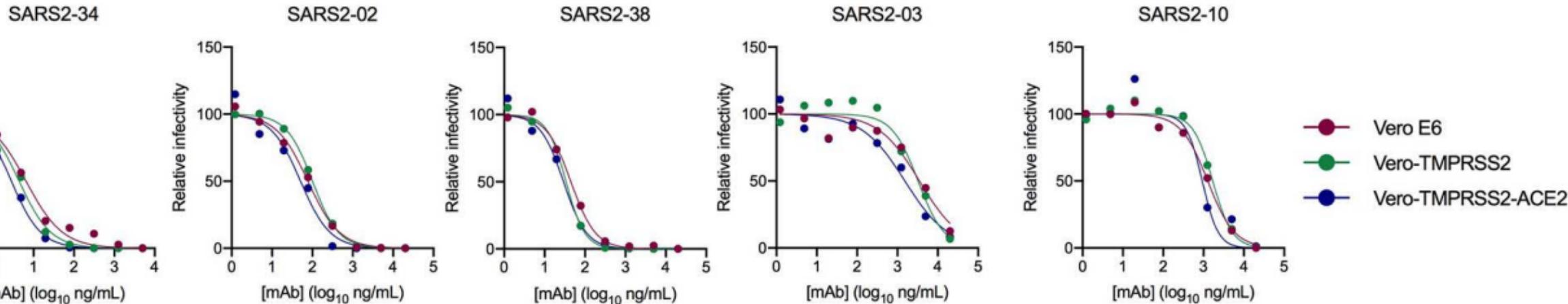
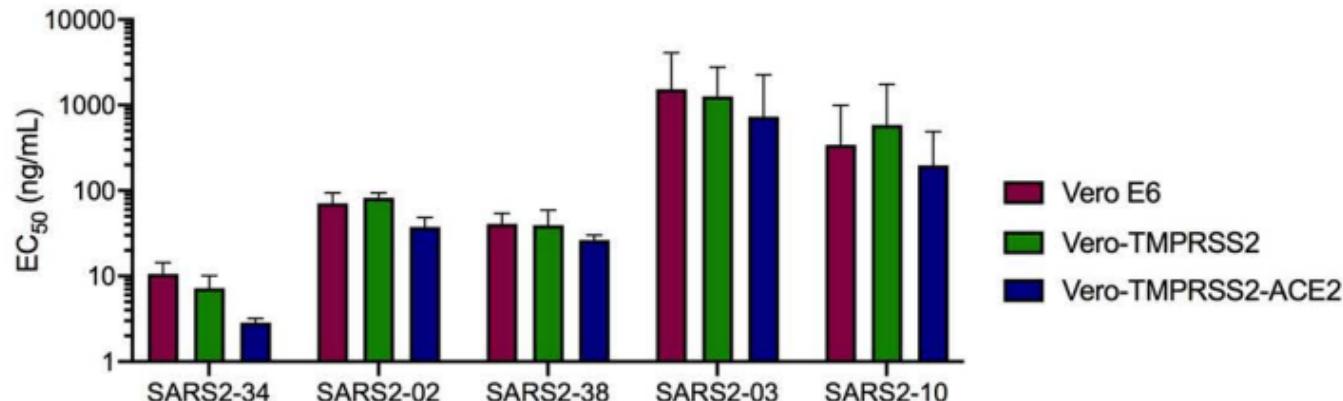
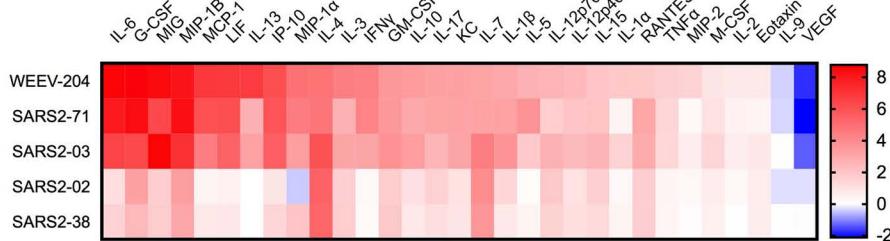
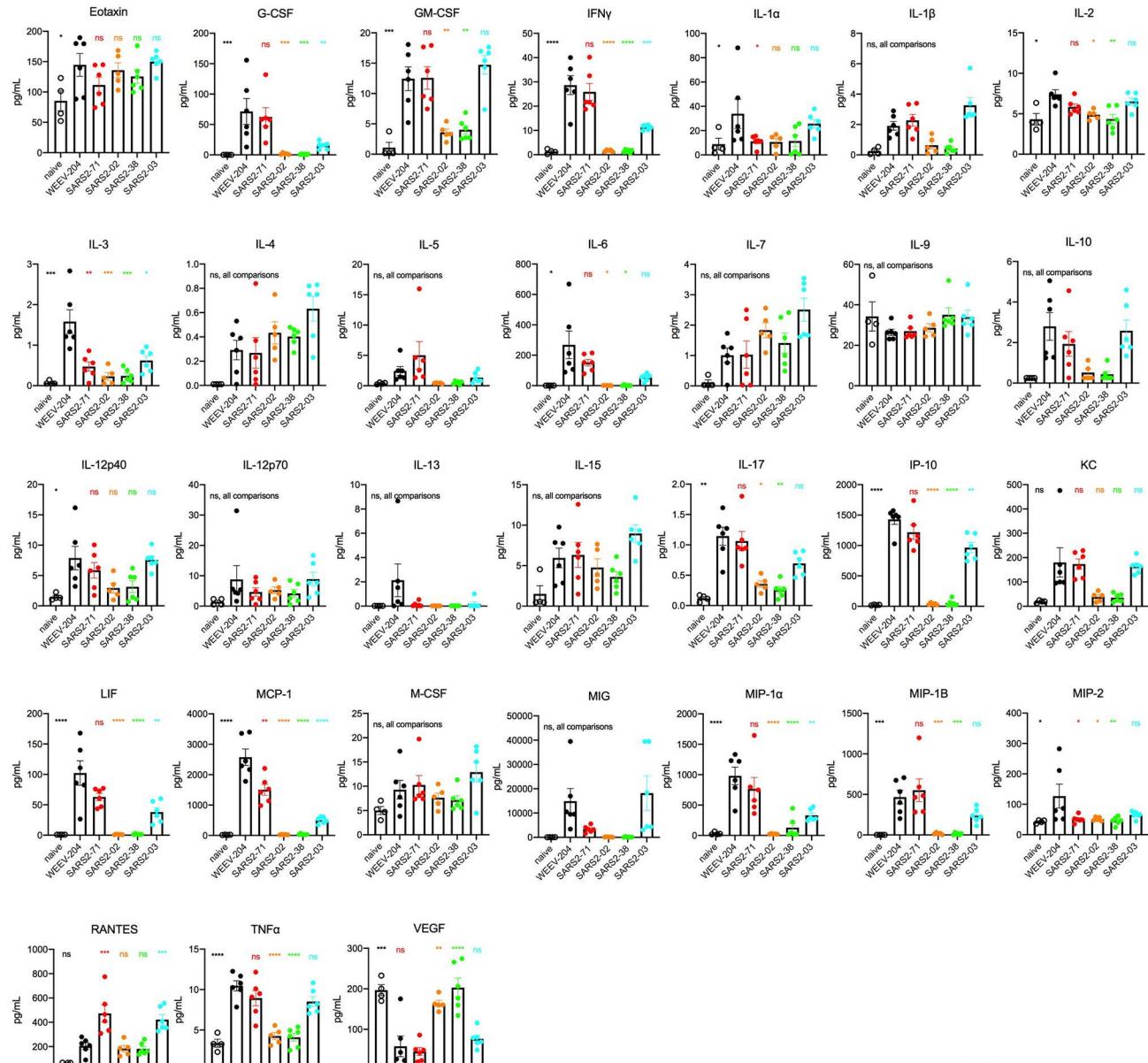


Figure S1

A**B****Figure S2**

A**B****Figure S3**

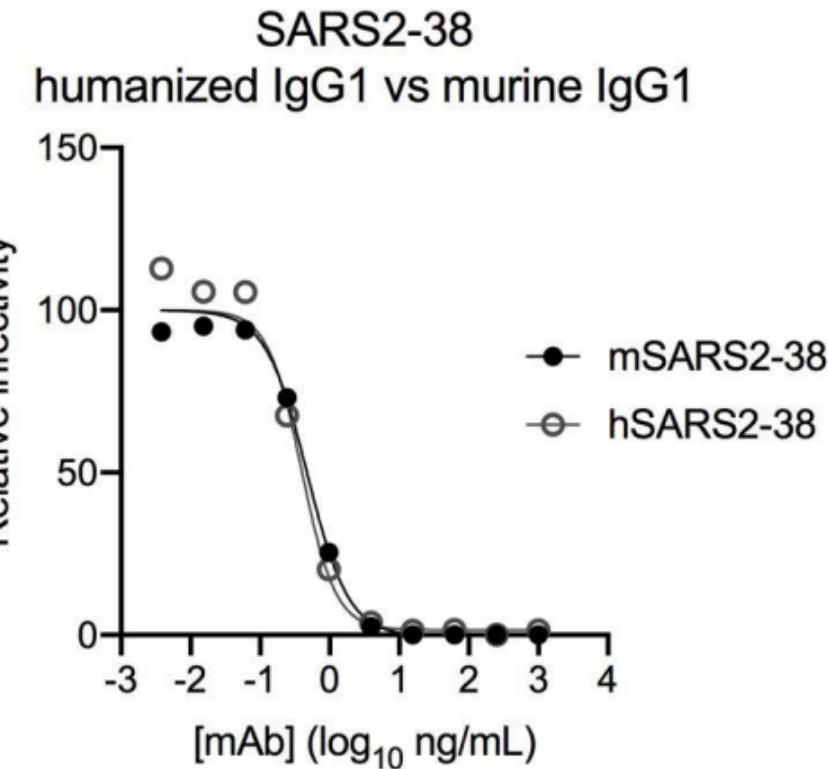
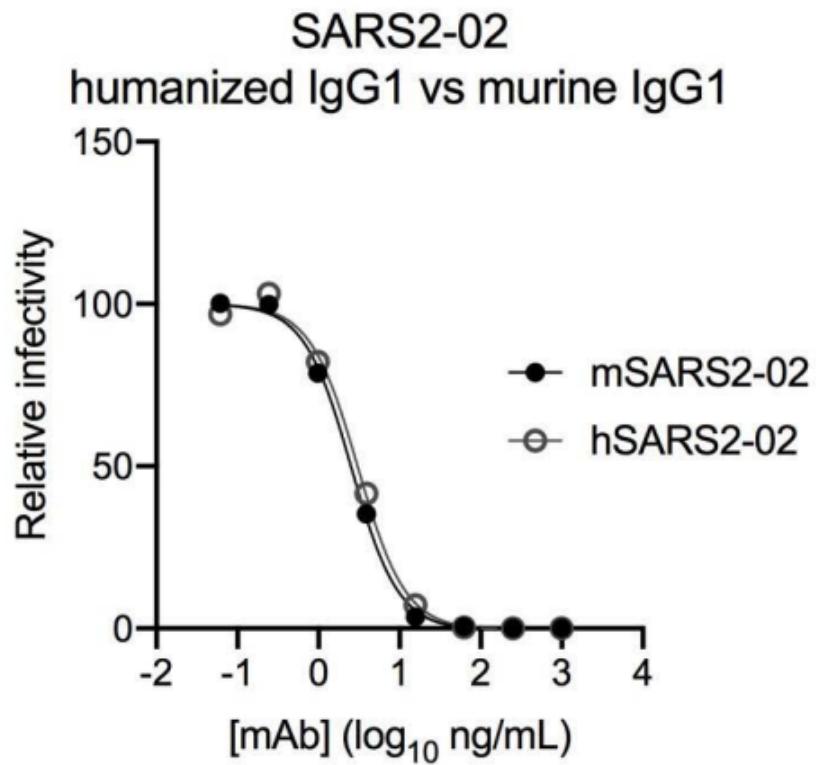
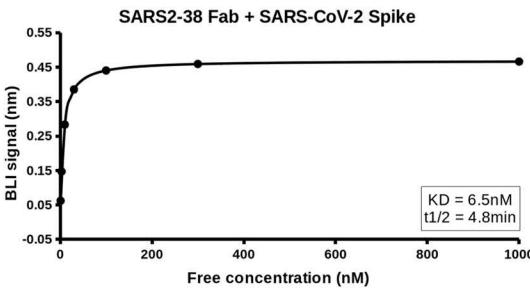
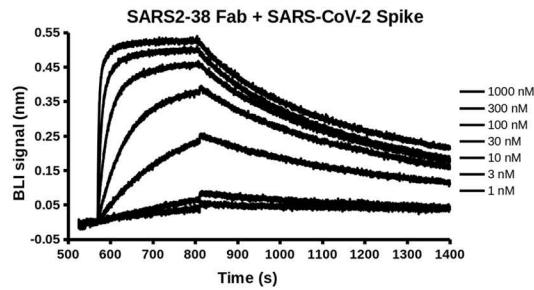


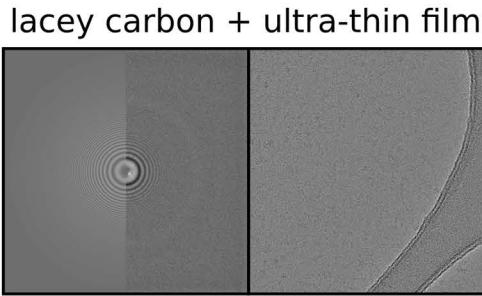
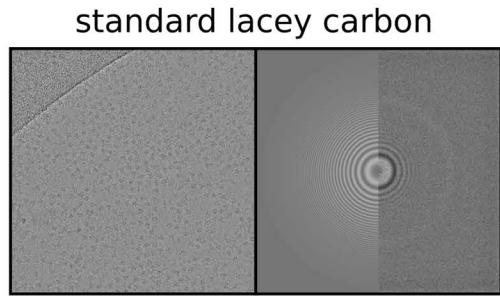
Figure S4

Figure S5

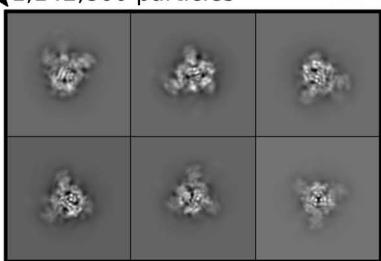
A



B

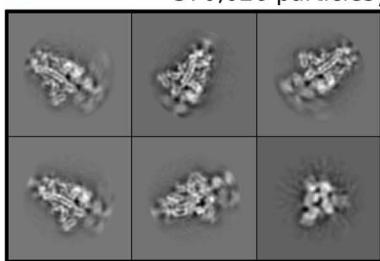


1,142,860 particles



2D classification

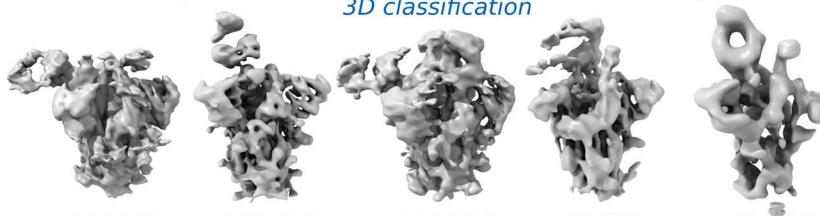
570,026 particles



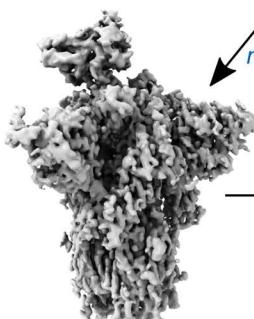
703,394 particles

3D classification

201,162 particles



CTF refinement
Bayesian polishing
non-uniform refinement



local non-uniform refinement

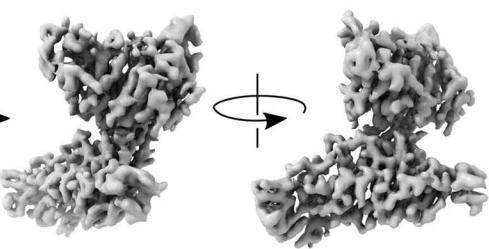


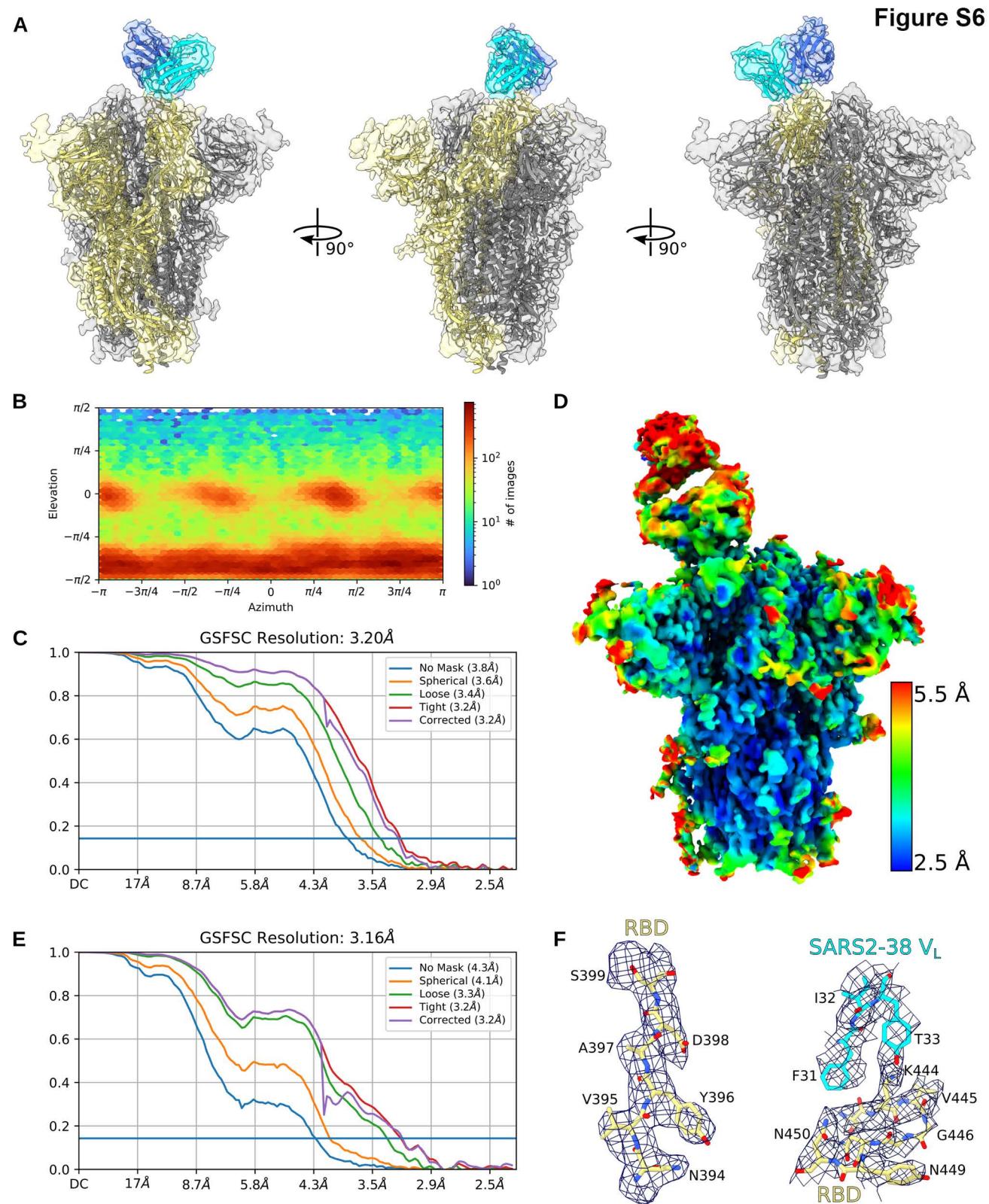
Figure S6

Table S1

Cryo-EM data collection, processing, and model refinement statistics		
	SARS-CoV-2 spike + Fab SARS2-38 (global) PDB 7MKL EMD-23898	SARS-CoV-2 spike + Fab SARS2-38 (local) PDB 7MKM EMD-23899
Data collection		
Magnification	59,000x	59,000x
Exposure (e ⁻ /Å ²)	50	50
Defocus range (μm)	0.8-2.3	0.8-2.3
Pixel size (Å/pixel)	1.16	1.16
Data processing		
Initial particles (no.)	1,712,886	1,712,886
Final particles (no.)	272,007	272,007
Nominal resolution (Å)	3.20	3.16
FSC threshold	0.143	0.143
Model refinement		
Adapted PDB models	6M0J, 1KIQ, 5XJM, 6VXX	6M0J, 1KIQ, 5XJM
Model resolution (Å)	4.1	4.2
FSC threshold	0.5	0.5
Model composition		
Non-hydrogen atoms	25,597	3,192
Residues	3,164	406
Ligands	63	1
B-factors (Å ²)		
Residues	102.17	76.19
Ligands (glycans)	122.20	81.01
Bonds (RMSD)		
Length (Å)	0.004	0.003
Angles (°)	0.816	0.797
Validation		
Molprobity score	1.69	1.51
Clash score	10.10	8.33
Rotamer outliers (%)	0.00	0.00
Ramachandran		
Favored (%)	97.09	97.75
Allowed (%)	2.91	2.25
Outliers (%)	0.0	0.0