

Figure 1

BG505. 664 SOSIP Purification

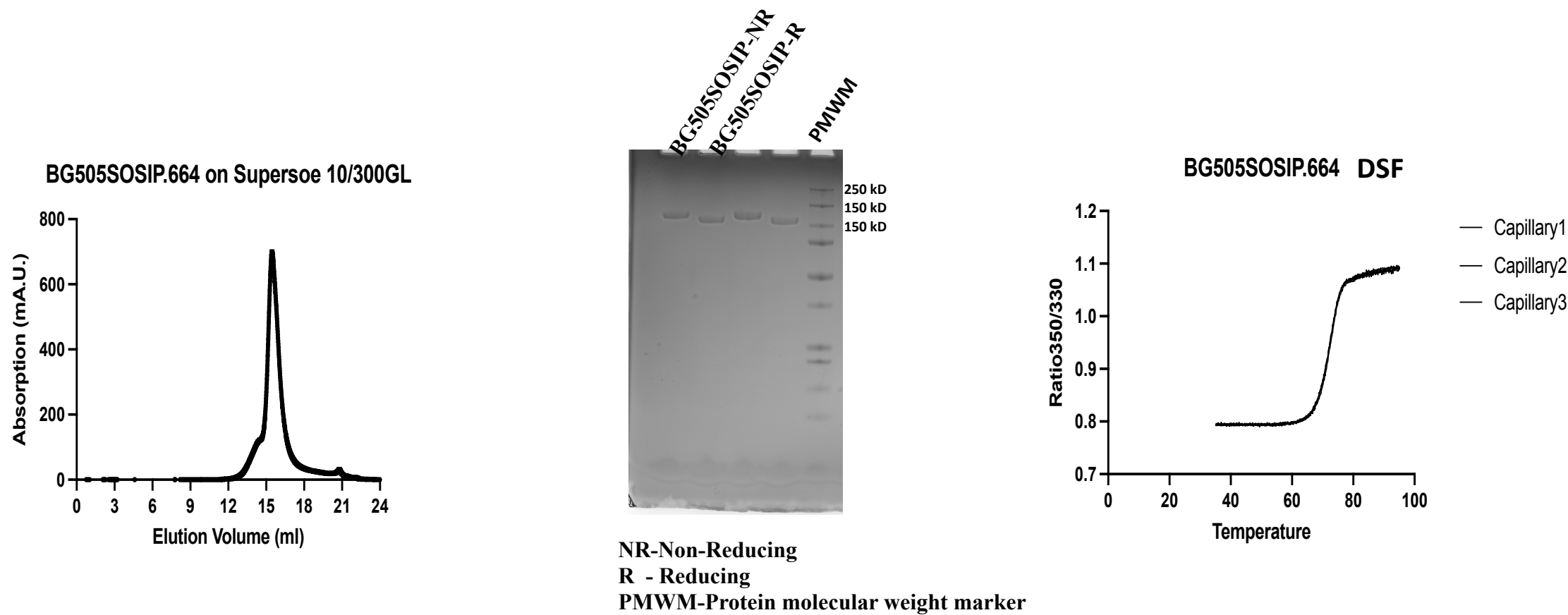
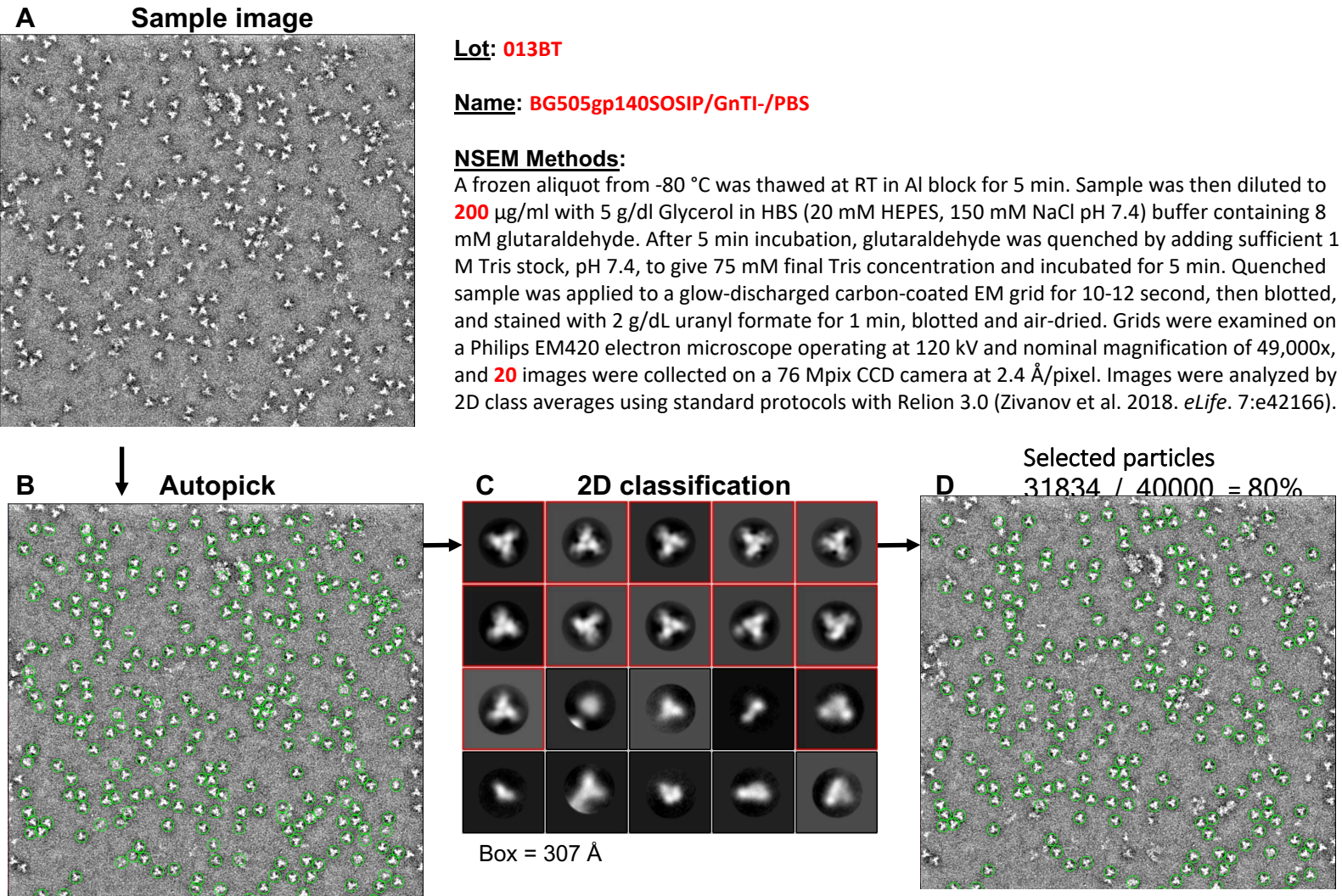


Figure 1. (Left) Size exclusion chromatography, (Middle) SDS-PAGE, (Right) Differential scanning fluorimetry profile of purified BG505 SOSIP sample

Figure 2



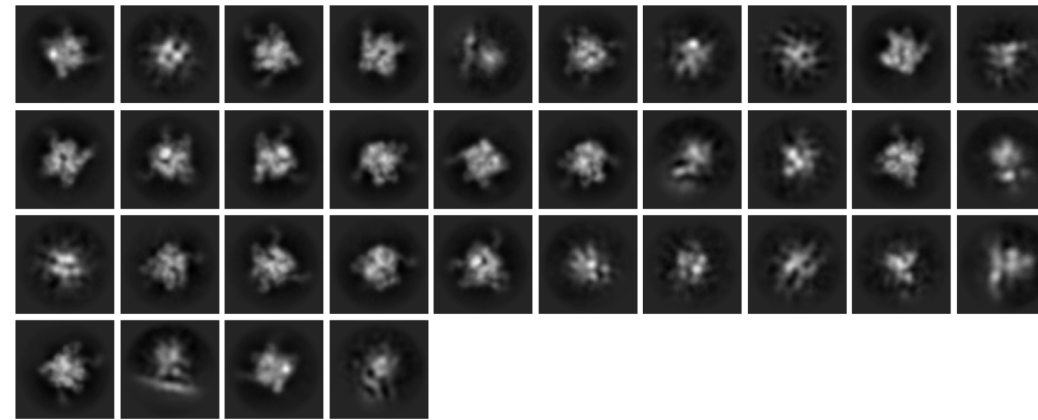
100 nm

- Micrograph images may or may not be ideal for publication: They have been low-pass filtered @ 20 Å, high-pass filtered @ 500 Å, and down-sampled 2x.
- If higher quality images are needed, please request from RJ or Katayoun, and indicate the NSEM Lot #
- Scale bar for micrographs is only accurate if image width = 3.0". To change size, group image and scalebar first, then resize

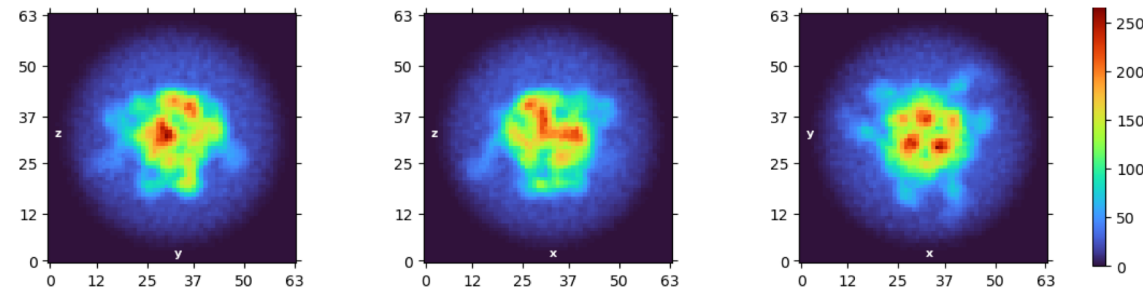
Figure 2. Negative Stain EM of BG505 SOSIP sample.

Figure 3

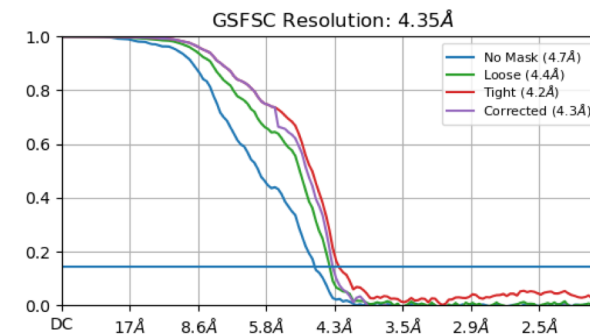
Cryo-EM data processing



2D classification



ab-initio model building



FSC curve of refined map

Figure 3. Cryo-EM of BG505 SOSIP sample.

Figure 4

BG505 SOSIP-CD4-17b-VRC34.01 cryo-EM refined map

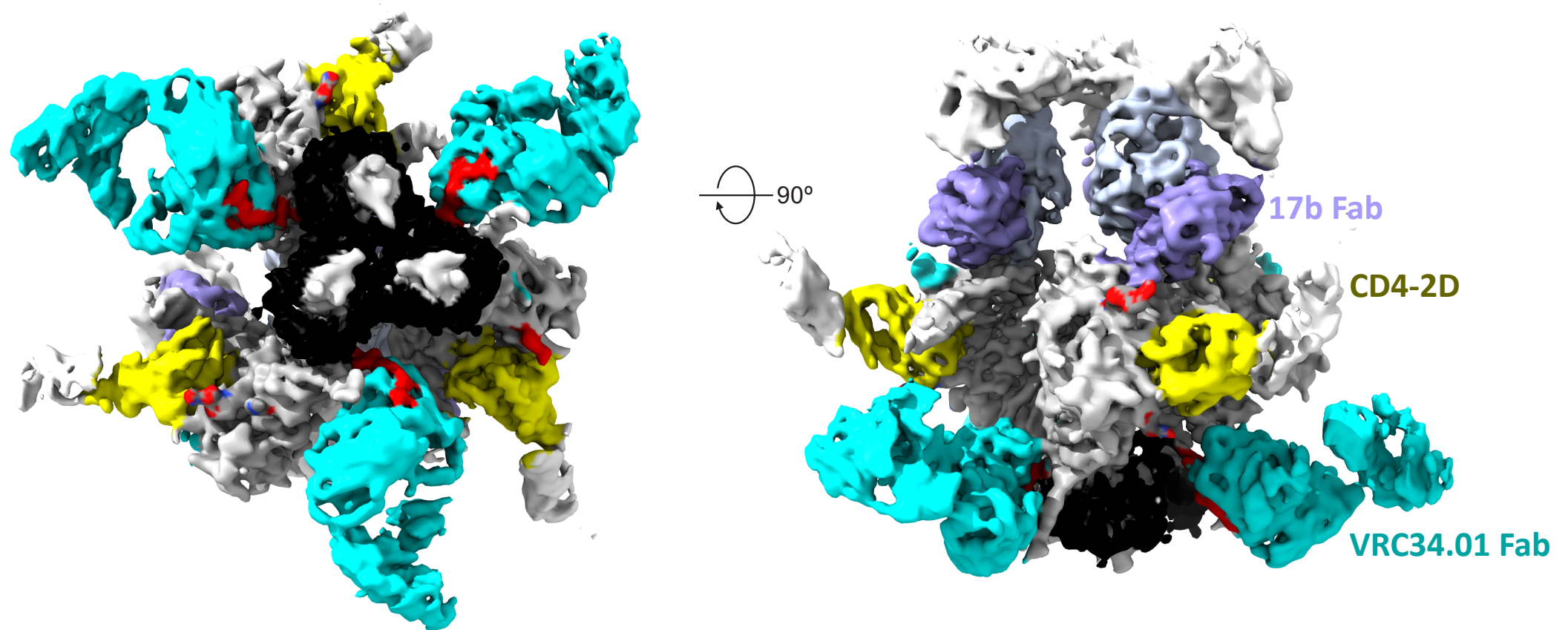


Figure 4. 3D reconstruction of partially open Env (grey: gp120, black: gp41) bound to CD4 (yellow), 17b (blue) and VRC34 (cyan)