| Related to Fig. 5A. | DENV2 virion / C10 3f | ZIKV virion / C10 3f | DENV2 virion / C10 3f | ZIKV virion / C10 3f |
|-------------------|----------------------|----------------------|----------------------|----------------------|
| DENV2 virion / C10 3f (reference structure) | 0.64 | 0.86 | 0.97 | 0.90 |

For C10 uO, RMSD was calculated in comparison to the DENV2 virion C10 3f reference structure. All C10 uO are aligned on to residues 3-109 of heavy chain and 2-102 of the light chain (Kabat numbering), and RMSD for the 214 Cu pairs is reported in each column.

| Related to Fig. 5B | DENV1 sE / scFv C10 site 1 | DENV2 sE / scFv C10 site 2 | DENV2 sE / scFv C10 site 2' | DENV2 sE / scFv C10 site 2'' | DENV3 sE / scFv C10 site 1 | DENV4 sE / scFv C10 site 2 |
|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZIKV sE / Fab C10 site 0 (reference structure) | 0.34 | 0.70 | 0.72 | 0.60 | 0.79 | 0.56 | 0.64 | 0.47 | 0.77 | 0.49 | 0.53 | 0.61 | 0.42 | 0.43 |

Structures aligned onto the DI tip of ZV s / Fab C10 structure (residues 6-120). RMSD for the 55 Cu atom pairs in each column. Columns with orange background are related to the left panel in Fig. 5B, columns with green background are related to the middle panel and columns with blue background are related to the right.