## S2 Table. Envelope protein amino acids that differ between IOL (SL07) and Asian (Mal06) CHIKV strains and potentially interact with the IOL adaptive E2 mutations.

| Protein | Residue | Amino Acid | SL07 | Mal06 | 198 | 210 | 233 | 252 |
|---------|---------|------------|------|-------|-----|-----|-----|-----|
| E3      | 33      | E          | K    |       | 17  | 15  | 10  | 13  |
| E2      | 194     | G          | S    |       | 15  | 12  | <10 | >20 |
|         | 205     | G          | D    |       | 15  | 12  | >20 | >20 |
|         | 207     | N          | S    |       | >20 | 14  | >20 | >20 |
|         | 248     | L          | S    |       | >20 | 16  | 10  | 10  |
|         | 255     | I          | V    |       | >20 | >20 | >20 | 12  |
| E1      | 72      | N          | S    |       | >20 | >20 | >20 | 17  |
|         | 211     | K          | E    |       | >20 | >20 | >20 | 16  |

Summary of residues which both (a) differ between IOL (SL07) and Asian (Mal06) CHIKV, and (b) are located within 20 angstrom of at least one of the E2 adaptive residues 198, 210, 233, and/or 252. Distances of <20 angstrom are highlighted in green.