Table S7. Analysis of residue conservation in: alpha helix 1’ (residues 365-379), alpha helix 2’ (residues 390-400) of domain II and alpha helix 7’’ (residues 525-537) and alpha helix 3’’ (residues 602-615) of domain III, as part of the RNA-binding zone for DENV and ZIKV. All values are percentages.

|  |
| --- |
| α1’ DII (Consensus sequence: SIKAGNDIANCLRKN) |
|   | DENV1 | DENV2 | DENV3 | DENV4 | ZIKV |
| DENV1 | 93.33-100 |   |   |   |   |
| DENV2 | 80-93.33 | 80-100 |   |   |   |
| DENV3 | 86.66-100 | 80-93.33 | 93.33-100 |   |   |
| DENV4 | 86.66-93.33 | 80-86.66 | 86.66-93.33 | 100 |   |
| ZIKV | 53.33 | 60-66.66 | 53.33 | 53.33 | 100 |
|   |
| α2’ DII (Consensus sequence: TFDTEYQKTKL) |
|   | DENV1 | DENV2 | DENV3 | DENV4 | ZIKV |
| DENV1 | 100.00 |   |   |   |   |
| DENV2 | 63.63-81.81 | 72.72-100 |   |   |   |
| DENV3 | 81.81-90.90 | 54.54-72.72 | 81.81-100 |   |   |
| DENV4 | 81.81 | 63.63-72.72 | 81.81-90.90 | 100 |   |
| ZIKV | 72.72-81.81 | 45.45-63.63 | 63.63-81.81 | 63.63 | 90.90-100 |
|   |   |   |   |   |   |
| α7” DIIΙ (Consensus sequence: RLRGEARKTFVEL) |
|   | DENV1 | DENV2 | DENV3 | DENV4 | ZIKV |
| DENV1 | 100 |   |   |   |   |
| DENV2 | 92.30 | 84.61-100 |   |   |   |
| DENV3 | 84.61 | 76.92-92.30 | 100 |   |   |
| DENV4 | 92.30 | 84.61-92.30 | 84.61 | 100 |   |
| ZIKV | 76.92 | 69.23-76.92 | 69.23 | 84.61 | 100 |
|   |   |   |   |   |   |
| α3” DIIΙ (Consensus sequence: YSDPLALKEFKEFAA) |
|   | DENV1 | DENV2 | DENV3 | DENV4 | ZIKV |
| DENV1 | 93.33-100 |   |   |   |   |
| DENV2 | 73.33-93.33 | 86.66-100 |   |   |   |
| DENV3 | 73.33-93.33 | 73.33-100 | 86.66-100 |   |   |
| DENV4 | 60-66.66 | 73.33-80 | 66.66-73.33 | 100 |   |
| ZIKV | 60-66.66 | 73.33 | 60-73.33 | 60 | 100 |