**S3 Table.** Recombinant proteins used in the study.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Virus | Protein | Antigen | Provider | Reference | Purity by SDP-PAGE |
|  |  |  |  |  |  |
| Chikungunya | Envelope | CHIKV\_E2 | Interchim | A2YI70 | > 95% |
|  | Non Structural Protein 1234 | CHIKV\_NSP | Cusabio | RPC23292 | > 90% |
| O'nyong-nyong | Envelope | ONNV\_E2 | Centaur | IT-022-005Ep | > 95% |
| Zika | Envelope Domain 3 | ZIKV\_DIII | Interchim | A2YHT0 | > 95% |
|  | Non Structural protein 1 | ZIKV\_NS1 | Interchim | 40544-V07H | > 95% |
| Yellow Fever | Non Structural protein 1 | YFV\_NS1 | Interchim | 80-1547 | > 95% |
| Dengue | Envelope Domain 3 | DENV1\_DIII | Interchim | BWZ880 | > 95% |
|  | Envelope Domain 3 | DENV2\_DIII | Interchim | 40471-V08Y3 | > 95% |
|  | Envelope Domain 3 | DENV3\_DIII | Interchim | OPPA02169 | > 95% |
|  | Envelope Domain 3 | DENV4\_DIII | Interchim | OPPA02021 | > 95% |
|  | Non Structural protein 1 | DENV1\_NS1 | Biorad | PIP047A | > 95% |
|  | Non Structural protein 1 | DENV2\_NS1 | Biorad | PIP048A | > 95% |
|  | Non Structural protein 1 | DENV3\_NS1 | Biorad | PIP049A | > 95% |
|  | Non Structural protein 1 | DENV4\_NS1 | Biorad | PIP050A | > 90% |
| Usutu | Non Structural protein 1 | USUV\_NS1 | Abcam | Ab218552 | > 95% |
| West Nile | Non Structural protein 1 | WNV\_NS1 | Interchim | 40346-V07H | > 95% |
|  | Envelope Domain 3 | WNV\_DIII | Interchim | 40345-V08Y | > 95% |