**Additional file 4: Table S3**. Determination the viral copy number in infected mosquito bodies used to spike mosquito pools

|  |  |  |  |
| --- | --- | --- | --- |
| Samples | Head Cq | Measured | Predicted |
| Head Log10\_Total copy number | Body Log10\_Total copy number | Body Log10\_Total copy numbere |
| CHIKV 24a | 22.21 | 7.79 | 9.47 | 9.87  |
| CHIKV 5b | 22.47 | 7.78 | 8.84 | 9.85 |
| CHIKV 4b | 23.99 | 7.49 | 8.95 | 9.43 |
| CHIKV 23c | 22.06 | 7.96 | 9.37 | 10.12 |
| CHIKV 13c | 23.3 | 7.54 | 9.44 | 9.5 |
| CHIKV 10d | 25.34 | 7.12 | 8.68 |  |
| CHIKV 19d | 25.51 | 6.52 | 8.48 |  |
| CHIKV 14d | 23.44 | 7.61 | 9.41 |  |
| CHIKV 16d | 40.04 | 2.76 | 2.43 |  |
| CHIKV 25d | 40.24 | 2.84 | 2.58 | 　 |
| USUV 8a | 22.55  | 7.23  | 8.67  | 8.63  |
| USUV 22b | 22.82  | 6.87  | 8.85  | 8.52  |
| USUV 11b | 23.14  | 7.04  | 8.55  | 8.57  |
| USUV 24c | 22.99  | 7.13  | 8.53  | 8.59  |
| USUV 6c | 22.85  | 6.89  | 8.73  | 8.52  |
| USUV 3d | 23.07  | 7.54  | 8.84  |  |
| USUV 4d | 23.82  | 7.37  | 8.54  |  |
| USUV 19d | 24.25  | 6.89  | 8.50  |  |
| USUV 17d | 28.52  | 6.29  | 8.37  | 　 |
| WNV 24a | 22.20  | 8.52  | 9.88  | 10.89  |
| WNV 1b | 22.17  | 8.39  | 10.03  | 10.64  |
| WNV 2b | 23.26  | 8.14  | 9.89  | 10.13  |
| WNV 22c | 22.16  | 8.33  | 10.10  | 10.50  |
| WNV 10c | 22.37  | 8.56  | 9.89  | 10.97  |
| WNV 12d | 20.49  | 8.17  | 9.72  |  |
| WNV 13d | 21.87  | 7.59  | 9.60  |  |
| WNV 20d | 21.77  | 8.03  | 9.91  |  |
| WNV 6d | 37.71  | 3.19  | 0.00  |  |
| WNV 11d | 37.90  | 3.10  | 0.00  | 　 |
| ZIKV 75a | 23.97  | 7.73  | 9.38  | 8.56  |
| ZIKV 59b | 24.94  | 7.16  | 10.03  | 8.53  |
| ZIKV 58b | 24.86  | 7.38  | 9.14  | 8.54  |
| ZIKV 56c | 24.81  | 7.41  | 9.11  | 8.54  |
| ZIKV 66c | 23.86  | 7.25  | 9.27  | 8.53  |
| ZIKV 74d | 24.02  | 6.90  | 8.39  |  |
| ZIKV 53d | 25.70  | 7.06  | 8.56  |  |
| ZIKV 57d | 25.90  | 6.86  | 8.62  |  |
| ZIKV 71d | 39.30  | 2.32  | 8.11  |  |
| ZIKV 54d | 37.78  | 1.11  | 8.25  | 　 |

aused to spike 100 mg pool

bused to spike 200 mg pool

cused to spike 1000 mg pool

dused to determine the virus copy number in both the head and the body

epredicted based on the copy number in the corresponding head