

Supplementary Table 3. The reference sequences used in this study

| Strains |                 | GenBank<br>accession no. L | GenBank<br>Accession no. S | Complete genome<br>or partial gene | Sampling sites   |
|---------|-----------------|----------------------------|----------------------------|------------------------------------|------------------|
| WENV    | Wufeng WFS      | MZ328246                   | MZ328247                   | Complete genome                    | China            |
|         | WCS             | MZ328242                   | MZ328239                   | Complete genome                    | China            |
|         | Rn 242          | KJ909795                   | NC_026018                  | Complete genome                    | Zhejiang, China  |
|         | 140512          | KM051420                   | KM051422                   | Complete genome                    | Zhejiang, China  |
|         | Rn 366          | KM386661                   | KM386660                   | Complete genome                    | Zhejiang, China  |
|         | RnGZ40 2018     | MW174779                   | MW174780                   | Complete genome                    | Guangdong, China |
|         | CH50            | MZ272061                   | -                          | Complete genome                    | Guangdong, China |
|         | Rn YCB1         | KY662262                   | KY662263                   | Complete genome                    | Xinjiang, China  |
|         | RtYM51-2015     | -                          | MG736228                   | Part genome                        | Yunnan, China    |
|         | 9-24            | -                          | MF414208                   | Complete genome                    | Yunnan, China    |
|         | RtYM16-2015     | MG736227                   | MG736236                   | Complete genome                    | Yunnan, China    |
|         | Haikou          | MF595888                   | MF595889                   | Complete genome                    | Hainan, China    |
|         | PL              | MF974577                   | -                          | Complete genome                    | Hainan, China    |
|         | G107            | MF925714                   | MF925715                   | Complete genome                    | Shandong, China  |
|         | KP050           | KM888575                   | -                          | Part genome                        | Cambodia         |
|         | MYR 039         | MG999644                   | MG999643                   | Complete genome                    | Malaysia         |
|         | C649            | KC669690                   | KC669696                   | Complete genome                    | Burma            |
|         | C617            | KC669691                   | KC669694                   | Complete genome                    | Burma            |
|         | R4937           | KC669692                   | KC669697                   | Complete genome                    | Tailand          |
|         | R5074           | KC669693                   | KC669698                   | Complete genome                    | Thailand         |
| LASV    | Nig08 A41       | GU481077                   | GU481076                   | Complete genome                    | Nigeria          |
|         | NIG 2010        | KM822030                   | -                          | Complete genome                    | Nigeria          |
|         | G2427-SLE-201   | KM8218531                  | -                          | Part genome                        | USA              |
|         | LF18042         | MH215288                   | -                          | Part genome                        | Liberia          |
|         | 812285          | MG812674                   | -                          | Part genome                        | Nigeria          |
|         | Pinneo-NIG-1969 | KM822127                   | -                          | Part genome                        | Nigeria          |
|         | SL20            | AY363907                   | -                          | Part genome                        | Germany          |
|         | Lib05-2096      | GU979510                   | -                          | Part genome                        | Liberia          |
|         |                 |                            |                            |                                    |                  |
| LCMV    | 53b             | AY847351                   | AY847350                   | Complete genome                    | Spain            |
|         | Comou           | -                          | KT731538                   | Complete genome                    | French           |
| DANV    | 0710 2678       | EU136039                   | EU136038                   | Complete genome                    | USA              |
| LUAV    | LSK 1           | AB586645                   | AB586644                   | Complete genome                    | Zambia           |
|         | NMW 1           | AB586647                   | AB586646                   | Complete genome                    | Zambia           |
| IPPYV   | Dak An B 188d   | DQ328878                   | DQ328877                   | Complete genome                    | France           |
| MORV    | 3017 2004       | EU914104                   | EU914103                   | Complete genome                    | Tanzania         |
|         | TZ23211         | KY283181                   | -                          | Part genome                        | Tanzania         |
| MPOV    | Mozambique      | DQ328875                   | DQ328874                   | Complete genome                    | Mozambique       |
| MOBV    | Acar 3080       | DQ328876                   | NC_007903                  | Complete genome                    | France           |
| MAFV    | F4-8            | GU182412                   | -                          | Part genome                        | Tanzania         |