

Table S2. Reference strains information of PPV3.

| Strains | GenBank accession NO. | Year | Area |
|--------------|-----------------------|------|----------------|
| IA38835/1998 | KF561853.1 | 1998 | USA |
| IA40895/1998 | KF561854.1 | 1998 | USA |
| PPV3-03 | MK649762.1 | 2002 | United Kingdom |
| PPV3-02 | MK649763.1 | 2002 | United Kingdom |
| PPV3-01 | MK649761.1 | 2004 | United Kingdom |
| IIISRB | KC701328.1 | 2007 | Serbia |
| ISRB | KC701332.1 | 2007 | Serbia |
| IISRB | KC701329.1 | 2008 | Serbia |
| IVSRB | KC701321.1 | 2008 | Serbia |
| 302HU | KC701327.1 | 2008 | Hungary |
| 340HU | KC701326.1 | 2008 | Hungary |
| 359HU | KC701325.1 | 2008 | Hungary |
| 360HU | KC701319.1 | 2008 | Hungary |
| 643CRO | KC701315.1 | 2008 | Croatia |
| 655CRO | KC701320.1 | 2008 | Croatia |
| VISRB | KC701330.1 | 2008 | Serbia |
| 676CRO | KC701323.1 | 2009 | Croatia |
| 687CRO | KC701318.1 | 2010 | Croatia |
| 705CRO | KC701317.1 | 2010 | Croatia |
| MK649764.1 | 16 | 2010 | United Kingdom |
| MK649765.1 | 17 | 2010 | United Kingdom |
| MK649766.1 | 18 | 2010 | United Kingdom |
| MK649767.1 | 19 | 2010 | United Kingdom |
| MK649768.1 | 21 | 2010 | United Kingdom |
| MK649769.1 | 22 | 2010 | United Kingdom |
| 722CRO | KC701322.1 | 2011 | Croatia |
| 136PL | KC701331.1 | 2011 | Poland |
| VIIISRB | KC701316.1 | 2011 | Serbia |
| CQ01 | MK378226.1 | 2017 | China |
| GX02 | MK378230.1 | 2017 | China |
| GZ03 | MK378232.1 | 2017 | China |
| GZ04 | MK378233.1 | 2017 | China |
| HeN01 | MK378234.1 | 2017 | China |
| LN02 | MK378238.1 | 2017 | China |
| NX01 | MK378239.1 | 2017 | China |
| NX02 | MK378240.1 | 2017 | China |
| SH01 | MK378244.1 | 2017 | China |
| E1 | MW030463.1 | 2018 | China |

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