

Table S6. Percent amino acid sequence identities of the complete sequence of the coat protein, between Wisteria vein mosaic virus (WVMV) isolate Bari (WAD86938.3) and 70 isolates representative of 23 species in the genus *Potyvirus*. Sequence identities are calculated based on pairwise MAFFT-based comparison. An onion yellow dwarf virus (OYDV) isolate (NP_871747) was included in the analysis as an outgroup. The analysis was performed using Sequence Demarcation Tool (SDT) software, version 1.2. The bold line represents the species demarcation threshold within the family *Potyviridae*, according to Adams et al. [61]. All sequences are identified by their accession number, species and isolate names, country of origin. Three-letter codes are used for country names, as defined in ISO 3166-1 standard [62]. Detailed information on individual isolates can be found in Table S2.

Sequence	Identity %
AXR98215 Wisteria vein mosaic virus ThW2259 IRN	100.00
QLK02401 Wisteria vein mosaic virus Ir IRN	100.00
AAN76998 Wisteria vein mosaic virus AUS AUS	99.65
YP_842359 Wisteria vein mosaic virus Beijing CHN	96.81
AAS89818 Wisteria vein mosaic virus BJ CHN	96.81
QBK46786 Wisteria vein mosaic virus YZ CHN	96.75
BDC30334 Soybean mosaic virus CC196 KOR	81.89
BDS00297 Wisteria vein mosaic virus CeJH KOR	81.56
NP_734200 Soybean mosaic virus N USA	81.51
UYV39659 Soybean mosaic virus ZJNB CHN	81.51
UQB67141 Soybean mosaic virus Mashhad IRN	81.51
BBJ70068 Uraria mosaic virus OC JPN	80.73
ABO16408 Calla lily latent virus BM19 TWN	80.50
ABO16407 Calla lily latent virus E49 TWN	80.50
QLG97050 Wisteria vein mosaic virus JEBUp KOR	80.14
ABO16404 Calla lily latent virus m10 TWN	80.14
ABO16409 Calla lily latent virus 3c27 TWN	79.79
UUW33094 Yambean mosaic virus BR6 BRA	78.68
YP_077277 Watermelon mosaic virus WMVFr FRA	78.65
UQZ09652 Watermelon mosaic virus CSG USA	78.65
WBQ21405 Watermelon mosaic virus 21MM ESP	78.29
YP_004940328 Yambean mosaic virus SR PER	77.82
QIN87091 Watermelon mosaic virus CNwm1 KOR	77.58
YP_004564598 Hardenbergia mosaic virus HarMV57.2 AUS	77.29
ASU91626 Bean common mosaic virus IrGoB IRN	75.89
YP_009667131 Paris mosaic necrosis virus PMNVcn CHN	75.84
UJE38535 Paris mosaic necrosis virus PMNVPolygonatum CHN	75.84
NP_734122 Bean common mosaic virus R CHN	75.80
BDF92389 Bean common mosaic virus Riukiensis111 JPN	75.53
ADZ45575 Hardenbergia mosaic virus MUH1 AUS	74.91
ADZ45577 Hardenbergia mosaic virus MU4 AUS	74.91
YP_009255234 Impatiens flower break virus Asan KOR	74.82
UXC97432 Bean common mosaic virus BK5 IND	74.73
YP_007001303 Blue squill virus A SW3 AUS	74.55
UZS00537 Paris mosaic necrosis virus ZY CHN	74.17
ADZ45576 Hardenbergia mosaic virus Pem1 AUS	73.82
QPJ58776 Telosma mosaic virus TelMVGL2 VNM	73.16
QHR83187 Telosma mosaic virus Wuyishan CHN	73.16
QHR83186 Telosma mosaic virus Fuzhou CHN	73.16
YP_004063680 Passion fruit woodiness virus PWVMU2 AUS	72.66
BAN10294 Passion fruit woodiness virus Gld1 AUS	72.66

Sequence	Identity %
UXM20226 East Asian Passiflora virus FJ CHN	72.66
QUP51979 Passiflora chlorosis virus Rehovot ISR	72.43
ART66970 Passion fruit woodiness virus SW8 AUS	72.20
YP 009458617 Saffron latent virus IrKh1 IRN	72.06
QPJ58619 East Asian Passiflora virus EAPVGL1 VNM	71.99
YP 001974445 Fritillary virus Y Panan CHN	71.90
YP 001816835 Telosma mosaic virus Hanoi VNM	71.69
YP 006395361 East Asian Passiflora virus AO JPN	71.28
NP 734112 Dasheen mosaic virus M13 CHN	71.22
QBI77031.2 Dasheen mosaic virus Et5 ETH	70.86
AZF86246 Passiflora mottle virus DakNong VNM	70.59
BDQ13836 Dasheen mosaic virus K1 KOR	70.50
BBI93213.2 Passiflora foetida virus Y OC JPN	70.22
QPJ58777 Passiflora mottle virus DN4 VNM	70.22
QPJ58778 Passiflora mottle virus NA1 VNM	70.22
URC17600 East Asian Passiflora virus Yecheon KOR	70.21
AIZ48756 Cowpea aphidborne mosaic virus RR3 IND	69.82
QFP41183 Cowpea aphidborne mosaic virus Para BRA	69.45
AXY96728 Cowpea aphidborne mosaic virus 11K KEN	69.45
UJH40707 Zucchini yellow mosaic virus SG CHN	69.23
YP 009665140 Passiflora chlorosis virus Florida USA	69.15
WBG54264 Zucchini yellow mosaic virus DSMZ PV0466 DEU	68.82
QWL14830 Zucchini yellow mosaic virus ZYMVIq IRQ	68.82
NP 734192 Zucchini yellow mosaic virus TWTN3 TWN	68.46
UUL70678 Dasheen mosaic virus PNGK PNG	68.44
NP 734388 Cowpea aphidborne mosaic virus CABMVZ ZWE	68.00
YP 002321508 Zantedeschia mild mosaic virus TW TWN	63.83
ALX38286 Zantedeschia mild mosaic virus AUS AUS	62.41
NP 871747 Onion yellow dwarf virus Yuhang CHN	60.94