

Supplementary Table S1 *Potato virus Y* isolates analysed in this study

Continent	Isolate name	Origin host	Country	Strain	Accession No.
Africa	Egypt	unknown	Egypt	O	AF522296
Asia	SD1	unknown	Chain	N	EU182576
	IRNH1	<i>Solanum tuberosum</i>	Iran	I-NTN	This study
	IRNH172	<i>S. tuberosum</i>	Iran	I-NTN	This study
	IRND41	<i>S. tuberosum</i>	Iran	I-NTN	This study
	IRNZ33	<i>S. tuberosum</i>	Iran	I-NTN	This study
	NTND6	<i>S. tuberosum</i> cv. Dejima	Japan	J-NTN	AB331515
	NTNHO90	<i>S. tuberosum</i> cv. Danshaku	Japan	J-NTN	AB331517
	NTNNN99	<i>S. tuberosum</i> cv. Nishiyutaka	Japan	J-NTN	AB331518
	NTNOK105	<i>S. tuberosum</i> cv. Nishiyutaka	Japan	J-NTN	AB331516
	NTNON92	<i>S. tuberosum</i> cv. Nishiyutaka	Japan	J-NTN	AB331519
	SYR-II-DrH	<i>N. tabacum</i> cv. Samsun	Syria	NTN-NW	AB461453
Europe	N-Fr	<i>S. tuberosum</i>	France	O	NC_001616
	Adgen-C	<i>S. tuberosum</i>	France	C	AJ890348
	Son41	<i>S. nigrum</i>	France	C	AJ439544
	12-94	<i>S. tuberosum</i>	Netherlands	NTN	AJ889866
	156	<i>S. tuberosum</i>	Germany	W	AJ889867
	156vari	<i>S. tuberosum</i>	Germany	W	AJ889868
	261-4	<i>S. tuberosum</i>	Germany	W(TN)	AM113988
	Iso15	<i>S. tuberosum</i>	Germany	W	AJ890350
	Linda	<i>S. tuberosum</i>	Germany	NTN	AJ890345
	Nicola	<i>S. tuberosum</i>	Germany	NA-NTN	AJ890346
	Satina	<i>S. tuberosum</i>	Germany	NTN	AJ890347
	Thole	<i>S. tuberosum</i>	Hungary	NTN	M95491
	Nnp	<i>Capsicum annum</i>	Italy	C	AF237963
	34/01	<i>Nicotiana tabacum</i>	Netherlands	NTN	AJ890342
	Ditta	<i>N. tabacum</i>	Netherlands	NTN	AJ890344
	Gr 99	<i>N. tabacum</i>	Netherlands	NTN	AJ890343
	LW	<i>S. tuberosum</i> cv. Lipinski Wczesny	Netherlands	W(O)	AJ890349
	O-Wilga	unknown	Netherlands	N(W)	EF558545
	NIB-NTN	<i>S. tuberosum</i>	Slovenia	NTN	AJ585342
	LYE84.2	<i>Lycopersicon esculentum</i>	Spain	C	AJ439545
	CH-605(NR)	<i>S. tuberosum</i> cv. Bintje	Switzerland	N	X97895
	SASA-110	<i>S. tuberosum</i>	United Kingdom	O	AJ585195
	SASA-207	<i>S. tuberosum</i>	United Kingdom	W	AJ584851
	SASA-61	<i>S. tuberosum</i>	United Kingdom	NA (O)	AJ585198
	SCRI-N	<i>S. tuberosum</i>	United Kingdom	N	AJ585197
	SCRI-O	<i>S. tuberosum</i>	United Kingdom	O	AJ585196
	V942490	<i>S. tuberosum</i>	United Kingdom	NTN	EF016294
North America	N:O L56	<i>S. tuberosum</i>	Canada	W	AY745492
	N:O Mb112	<i>S. tuberosum</i>	Canada	W	AY745491
	Tu 660	<i>S. tuberosum</i>	Canada	NTN	AY166866
	N-Jg	<i>S. tuberosum</i>	Canada	N	AY166867
	O-139	<i>S. tuberosum</i>	Canada	O	U09509
	Oz	<i>S. tuberosum</i>	Canada	O	EF026074
	423-3	<i>S. tuberosum</i> cv. Alturas	USA	NTN	AY884982
	Alt	<i>S. tuberosum</i> cv. Alturas	USA	W(TN)	AY884985
	ID-1	<i>S. tuberosum</i> cv. Ranger Russet	USA	W	DQ157178
	Mont	<i>S. tuberosum</i> cv. Ranger Russet	USA	N	AY884983
	M ^S N ^R	<i>N. tabacum</i>	USA	unknown	AF463399
USA	NC57	<i>N. tabacum</i> cv. Xanthi	USA	unknown	DQ309028
	OR-1	<i>S. tuberosum</i>	USA	W	DQ157179
	PB-312	unknown	USA	NTN	EF026075
	PB209	unknown	USA	W	EF026076
	PN10A	unknown	USA	unknown	DQ008213

Oceania	PRA-1	<i>S. tuberosum</i> cv. Ranger Russet	USA	NA-NTN	AY884984
	NZ	<i>S. tuberosum</i>	New Zealand	N(TN)	AM268435
Others	Patent	unknown	unknown	unknown	A08776
