

Supplementary Table 1 Description of published sequences of *Potato mop-top virus* (PMTV) used in this study

Isolate	Geographic origin	Source ^a	References ^b	Sequenced region ^c
8	Latvia	Tuber	5	8K, CP-RT
29	Latvia	Tuber	5	8K, CP-RT
64	Latvia	Tuber	5	8K, CP-RT
75	Latvia	Tuber	5	8K, CP-RT
605	Finland	Tuber	5	8K, CP-RT
705	Finland	Tuber	5	8K, CP-RT
805	Finland	Tuber	5	8K, CP-RT
1605	Finland	Tuber	5	8K, CP-RT
3205	Finland	Tuber	5	8K, CP-RT
4205	Finland	Tuber	5	8K, CP-RT
Korneta	Czech Republic	Test plant	2	8K, CP-RT
Todd	Scotland	Test plant	10	8K
T	Scotland	Test plant	4	CP-RT
PMTV-Sw	Sweden	Soil	8, 9	8K, CP-RT
La Cabana	Colombia	Test plant	3	8K
BS4T	Colombia	Tuber	6	CP-RT
23T	Colombia	Tuber	6	CP-RT
54-10	Denmark	Soil	7	8K
54-15	Denmark	Soil	7	8K, RT
Nb7	Thailand	Test plant	Unpubl.	CP
ScM 2007-1	Thailand	Tuber	Unpubl.	CP
AUPo6	Thailand	Test plant	Unpubl.	CP
H2	Canada	Tuber	11	CP
PMTV-PL	Poland	Tuber	1	CP
Hiroshima	Japan	Tuber	Unpubl.	8K, CP-RT
Tokachi	Japan	Tuber	Unpubl.	8K, CP

^a Isolates were characterized directly from infected potato tubers. Isolates from the soil were acquired using bait plants. Test plant isolates were generated by mechanical inoculation

^b 1. Budziszewska et al. (2010) *Plant Dis* 94:920; 2. Cerovska et al. (2007) *Folia Microbiol* 52:61-64; 3. Gil et al. (2011) *Actualidades Biologicas* 33:69-84; 4. Kashiwazaki et al. (1995) *Virology* 206:701-706; 5. Latvala-Kilby et al. (2009) *Phytopathology* 99:519-531; 6. Osorio-Giraldo et al. (2013) *Agronomia Mesoamericana* 24:1-15; 7. Pecenkova et al. (2004) *Virus Genes* 29:249-255; 8. Savenkov et al. (1999) *J Gen Virol* 80:2779-2784; 9. Savenkov et al. (2003) *J Gen Virol* 84:1001-1005; 10. Scott et al. (1994) *J Gen Virol* 75:3561-3568; 11. Xu et al. (2004) *Plant Dis* 88:363-367

^c CP, coat protein gene; RT, read-through domain; 8K, gene for cysteine-rich 8-kDa protein

Supplementary Table 2 Detection of the PMTV types of RNA-CP and RNA-TGB in potato tubers and soil by sequence analysis

Isolate	Source	Spraying symptoms	CP gene ^a	RT domain ^b	8K gene ^c
<u>Sweden</u>					
PMTV-[SE-K]	Tuber	No	II	II	B
PMTV-[SE-W]	Tuber	Yes	I	I	B
PMTV-[SE-X]	Tuber	Yes	I	I	B
PMTV-[SE-I]	Tuber	No	II	II	B
PMTV-[SE-N-1991]	Soil	-	I+ II	I+ II	B
PMTV-[SE-N]	Soil	-	II	II	B
PMTV-[SE-Z]	Tuber	No	II	II	B
PMTV-[SE-F]	Tuber	No	II	II	B
PMTV-[SE-H]	Tuber	No	II	II	B
PMTV-[SE-G]	Tuber	No	I	I	B
PMTV-[SE-T]	Tuber	No	II	II	B
PMTV-[SE-E]	Soil	-	II	II	B
PMTV-[SE-M]	Soil	-	II	II	B
PMTV-[SE-D]	Tuber	No	II	II	B
PMTV-[SE-AB]	Tuber	No	II	II	B
PMTV-[SE-C]	Tuber	Yes	II	I	A
PMTV-[SE-S]	Tuber	Yes	I	I	B
PMTV-[SE-Y]	Tuber	Yes	I	I	B
PMTV-[SE-U]	Tuber	No	I	I	B
PMTV-[SE-O]	Tuber	Yes	II	II	B
<u>Denmark</u>					
54-5	Soil	-	II	II	B
54-8	Soil	-	I	I	B
54-10	Soil	-	II	II	nd
54-11	Soil	-	I	I	nd
54-12	Soil	-	II	II	B
54-21	Soil	-	I	I	A
54-23	Soil	-	II	II	B
54-24	Soil	-	II	II	B
54-26	Soil	-	I	I	B
54-31	Soil	-	II	II	B
54-35	Soil	-	II	II	B
54-42	Soil	-	II	II	B
54-43	Soil	-	II	II	nd
54-44	Soil	-	II	II	B
<u>USA</u>					
1	Tuber	Yes	II	nd	B
2	Tuber	Yes	II	nd	B
3	Tuber	Yes	II	nd	B
4	Tuber	Yes	nd	nd	B
5	Soil	-	II	nd	B
7	Tuber	Yes	nd	nd	B
8	Tuber	Yes	II	nd	B
9	Tuber	Yes	II	nd	nd
10	Tuber	Yes	nd	nd	B

^a complete CP, coat protein gene (531 nt, nucleotide position 314..844), RNA-CP

^b partial RT, read-through domain (1617 nt, nucleotide position 1175..2791), RNA-CP

^c complete 8K, gene for cysteine-rich 8-kDa protein (207 nt, nucleotide position 2462..2668), RNA-TGB; nd, not determined