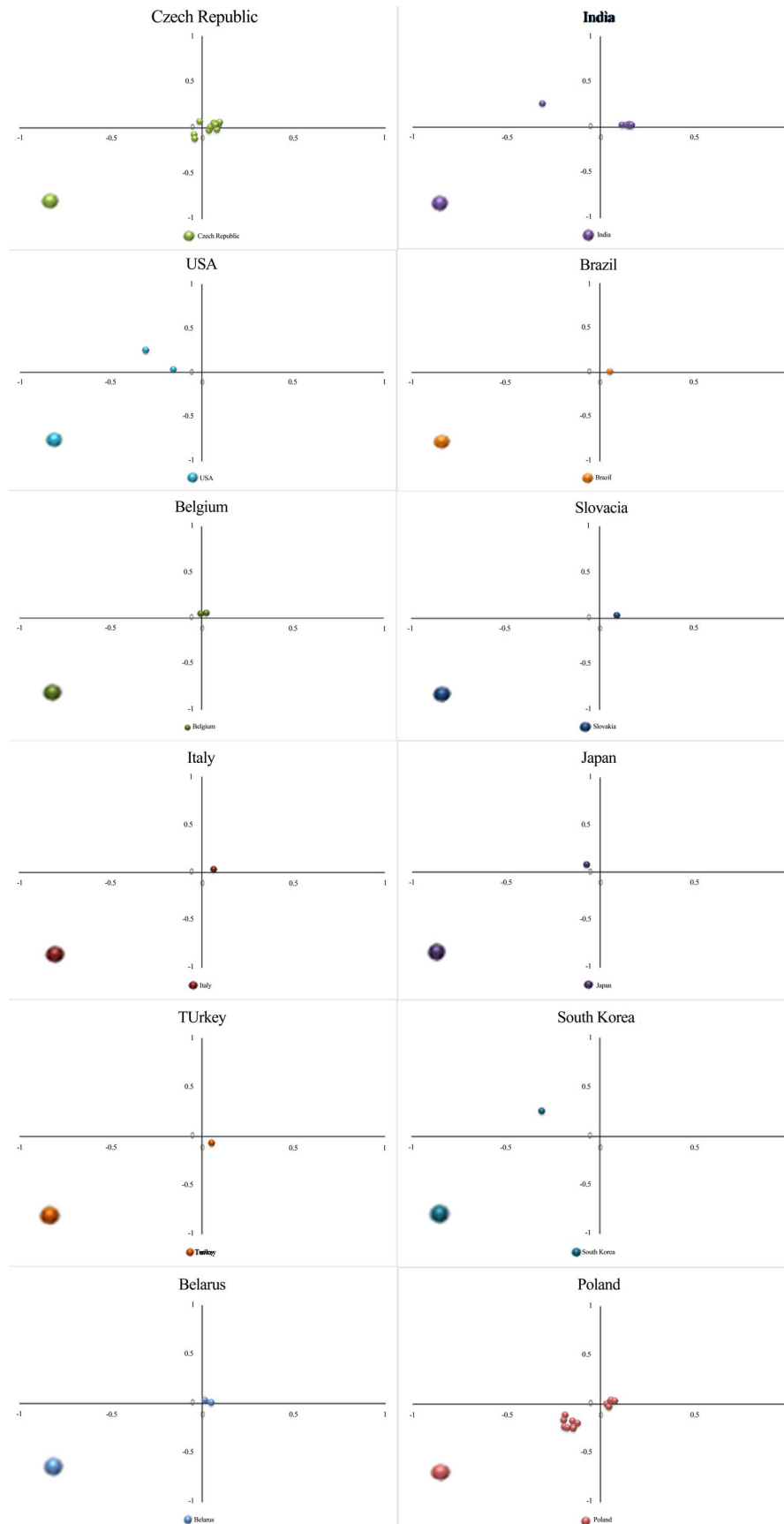


Supplementary Table 1 Coat protein (CP) sequences of apple mosaic virus (ApMV) isolates used in this study

Country	Isolate	Time	Host	Accession number
Poland	Negret 2	2010/2012	<i>Hazel</i>	HG328285
Poland	Trapez 6	2010/2012	<i>Corylus avellana</i>	HG328284
Poland	Trapez 4	2010/2012	<i>Corylus avellana</i>	HG328283
Poland	Negret 7	2010/2012	<i>Corylus avellana</i>	HG328282
Poland	TrapezK5	2010/2012	<i>Corylus avellana</i>	HG328279
Poland	TrapezA	2010/2012	<i>Corylus avellana</i>	HG328278
Poland	TrapezK	2010/2012	<i>Corylus avellana</i>	HG328277
Poland	Negret	2010/2012	<i>Corylus avellana</i>	HG328276
Czech Republic	CA-CZE	-	<i>Corylus avellana</i>	HE866959
Poland	26XII7	2012	<i>Apple</i>	HG328281
Belarus	Zaslavskoje	2012	<i>Malus domestica</i>	HG328280
Belarus	Pospeh	2013	<i>Malus domestica</i>	HG328270
Belarus	Minskoje	2012	<i>Malus domestica</i>	HG328269
Slovakia	Slov	-	<i>Malus domestica</i>	HG328268
Poland	Prud1	2012	<i>Malus domestica</i>	HG328267
Poland	29IV3	2012	<i>Malus domestica</i>	HG328266
Poland	26XIX17	2012	<i>Malus domestica</i>	HG328265
Poland	26XIX12	2012	<i>Malus domestica</i>	HG328264
Poland	26I1	2012	<i>Malus domestica</i>	HG328263
Czech Republic	ApMV_ISO7_WILD	-	<i>Malus domestica</i>	LT574872
Czech Republic	ApMV_ISO6_WILD	-	<i>Malus domestica</i>	LT574871
Czech Republic	ApMV_ISO5_EX/GARD	-	<i>Malus domestica</i>	LT574870
Czech Republic	ApMV_ISO4_EX/ORCH	-	<i>Malus domestica</i>	LT574869
Czech Republic	ApMV_ISO3_IN/GARD	-	<i>Malus domestica</i>	LT574868
Czech Republic	ApMV_ISO2_IN/GARD	-	<i>Malus domestica</i>	LT574867
Czech Republic	ApMV_ISO1_IN/GARD	-	<i>Malus domestica</i>	LT574866
India	Shimla	-	<i>Malus domestica</i>	FN435317
India	-	-	<i>Malus domestica</i>	FN435314
India	India3	2008	<i>Malus domestica</i>	FJ429311
India	-	-	<i>Malus domestica</i>	FN435316
India	-	-	<i>Malus domestica</i>	FN435315
Brazil	M003	2003	<i>Malus domestica</i>	GQ131805
India	Tc-3	-	<i>Malus domestica</i>	FN564150
India	-	2009	<i>Malus domestica</i>	FN547927
	13TF160	2013	<i>Malus domestica</i>	KY971021
Belgium	B1	-	<i>Malus domestica</i>	AY542540
Czech Republic	H	-	<i>Malus domestica</i>	AY054385
Japan	ApMV-CP-09	-	<i>Malus domestica</i>	AY125977
USA	ApMV-CP-03	-	<i>Malus domestica</i>	L03726
USA	ApMV-CP-02	-	<i>Malus domestica</i>	U15608
India	Apple	-	<i>Malus domestica</i>	HE574164
Korea	Fuji	-	<i>Malus domestica</i>	AF548367
Turkey	ApMV-M	2010	<i>Malus domestica</i>	JX155669
India	Shimla	-	<i>Malus domestica</i>	FM178274
USA	-	-	<i>Malus domestica</i>	AMU15608
Italy	pear It1	-	<i>Pear</i>	AY542546
Czech Republic	pear Roz144	-	<i>Pyrus communis</i>	AY542545
Czech Republic	pear Cerin	-	<i>Pyrus communis</i>	AY542544
Czech Republic	pear Kravare	-	<i>Pyrus communis</i>	AY542543
Czech Republic	pear Iv10	-	<i>Pyrus communis</i>	AY542542
Belgium	C3a	-	<i>Pyrus communis</i>	AY542541
Czech Republic	Pear	-	<i>Pyrus communis</i>	AY054389



Supplementary Fig. 1 Principal component analysis based on the relative synonymous codon usage values of all synonymous codons of the coat protein gene of apple mosaic virus shown separately for each country