

Table S1. PMC2 genotyped apricot accessions without phenotypic data against PPV infection

Cultivar	Country	Origin	Pedigree	PMC2 Genotype ^a	PMC2 Genotype Ref
AC Harostar (= HW 436)	Canada	Harrow, Ontario	Unknown controlled cross [107]	RS	[49]
Alyanak	Turkey			RS	PCR
Ardore	Italy	Instituto de Coltivazioni Arboree - University of Milan	Harval OP	SS	[49]
ASP (= 'Albaricoquero Sin Polen')	Spain	Valencia	Unknown	SS	PCR
Autumn Royal	USA	Hollister, California		SS	[49]
Baneasa 2211	Romania			SS	[49]
Boreale (BO 81604334)	Italy	University of Bologna, by D. Bassi	San Castrese x Reale di Imola [58]	SS	[49]
Budapest	Hungary		'Nancy' x ('Acme', 'Hungarian Best', 'Kései Rózsa') [108]	RS	PCR
Castleton	USA	Fresno, California, by J.H. Weinberger, USDA	Perfection x Newcastle [66]	RS	PCR
Ceglédi óriás	Hungary	Nyujtó Ferenc and colleagues	"Giant" group [96]	SS	PCR; [49]
CluthaGold (=n Clutha 13/43)	New Zealand	HortResearch Clyde Research Orchard, Alexandra, by P Glucina [53]	Sundrop (Perfection o.p.) x Moorpark [109]	RS	[49]
C2P30V6	Romania			RS	PCR; [88]
C3P19V4	Romania			RS	PCR; [88]
C2P18V4	Romania			RS	PCR; [88]
C2P18V2	Romania			RS	PCR; [88]
C8P17V5	Romania			SS	PCR; [88]
C7P18V5	Romania			RS	PCR; [88]
C7P13V4	Romania			RS	PCR; [88]
C1P16V3	Romania			RS	PCR; [88]
C7P16V6	Romania			RS	PCR; [88]
C9P20V3	Romania			RR	PCR; [88]
C7P16V6	Romania			RS	PCR; [88]
C2P18V4	Romania			RS	PCR; [88]
C7P16V2	Romania			RS	PCR; [88]
C5C5V4	Romania			SS	PCR; [88]
C7P18V3	Romania			RS	PCR; [88]
C9P19V1	Romania			RR	PCR; [88]

Cultivar	Country	Origin	Pedigree	PMC2 Genotype ^a	PMC2 Genotype Ref
C7P18V6	Romania			RS	PCR; [88]
C8P16V4	Romania			SS	PCR; [88]
C7P18V2	Romania			RS	PCR; [88]
Cristalí	Spain	Valencia	Unknown	SS	PCR
Çöloğlu	Turkey			SS	PCR
DCD11-47-2				SS	[49]
Dilbay	Turkey			RS	PCR
Dorada	Spain	CEBAS-CSIC, Murcia	Bergeron x Moniquí [110]	SS	PCR; [49]
				SS	
Effekt	Ukraine		Krupnolodnyi OP [108]	RS	PCR
Ezzine	Tunisia	INRAT	(Amor Leuch or Hamidi) x Canino [101]	SS	PCR
Fardao	France	Marie-France BOIS (IPS)		RS	[49]
Farfia	France	BOIS, IPS		SS	[49]
Farius	France	Marie-France BOIS (IPS)		RS	[49]
Fergani	Former USSR		Unknown	RS	PCR
Fiamma 1	Italy			SS	[49]
Gabachet (= Gavatxet, Gavachet)	Spain	Valencia	Unknown	SS	PCR
Gandía	Spain	Valencia	Unknown	SS	PCR
Gönci Magyar	Hungary		Clone/hybrid? of Hungarian Best [108]	SS	PCR
Güz Aprikozu	Turkey	Igdir		SS	[49]
Hellin 1182	USA			SS	[49]
HG963	Spain	Valencia		SS	PCR
Jerseycot (= NJA44)	USA	Orig. in Cream Ridge, New Jersey, by S.A. Mehlenbacher, L.F. Hough, and C.H. Bailey, New Jersey Agr. Expt. Sta. Introd. In 1986.	RR18-64 x CR3-135 (pedigree includes Scout, McClure, Perfection, and Phelps) [66]	SS	[49]
Jordan				SS	PCR
Kabaaşı	Turkey			SS	PCR
Kech-pshar	Uzbekistan		Unknown (local selection)	RS	PCR
Konservnyi Pozdnii	Ukraine		Unknown (chance seedling) [108]	SS	PCR
Ladyrose				RS	[49]
LE-3182	Czech Republic	Horticulture Faculty, Lednice		RS	[49]
LE-3225	Czech Republic	Horticulture Faculty, Lednice		RS	[49]

Cultivar	Country	Origin	Pedigree	PMC2 Genotype^a	PMC2 Genotype Ref
M1020040				SS	[49]
Madison				SS	PCR
Magyar Kajszi c235	Hungary		Clone of Hungarian Best [71]	SS	[49]
Mai Huang	China			SS	[49]
Manrí	Spain	Valencia		SS	PCR
Marcona				SS	PCR
Martinet	Spain	Valencia	Unknown [111]	SS	PCR
Medaga	France	Marie-France BOIS (IPS)		RS	[49]
Milord	Spain	PSB Producción Vegetal		SS	[49]
Mirandela (= A4792)	France			SS	PCR
MORMON SLDG (=Chinese)	China			RS	[49]
NJA1	USA		Phelps x Perfection [66]	SS	[49]
NJA23	USA	New Jersey		SS	[49]
NJA38	USA	New Jersey		SS	[49]
Pelechiella				SS	[49]
Primarina	France	International Plant Selection (IPS)		RR	[49]
Primaris (= IPS 1314)	France	Marie-France BOIS (IPS)		SS	[49]
Primaya (= IPS 1594)	France	Marie-France BOIS (IPS)		SS	[49]
Reale Baldassarri	Italy			SS	[49]
Reale Casetta Inferno	Italy			SS	[49]
Reale Grandi	Italy			SS	[49]
Rival	USA	W. State Agr. Ext. Serv. and USDA, Prosser, Washington	W1-24 (Tilton x Riland) x Perfection [66]	SS	[49]
Roksana	Turkey			RS	PCR
Royal Rousillon (= A2458)	France	INRA GAFL, Avignon	Bergeron x Rouge de Roussillon	SS	[49]
Rózsakajszi	Hungary		Local selection Nagykörös [108]	RS	PCR
Ruby	USA	Reedley California, by AA Corrin	sport of the Royal apricot tree [112]	SS	[49]
Sakit-3	Turkey			SS	PCR
Sanandrea	Italy			SS	[49]
Sarritzu I	Italy			SS	[49]
Selezione Cassani	Italy			SS	[49]
Shalah	Armenia		Unknown	RS	PCR
Sherpa	Spain	PSB Producción Vegetal SL		RS	[49]

Cultivar	Country	Origin	Pedigree	PMC2 Genotype^a	PMC2 Genotype Ref
Silvane	Romania			SS	[49]
Spring Giant	USA	Modesto, California, by C. Floyd Zaiger	King Cot x a seedling from (Flaming Gold x Gold Kist) [113]	SS	[49]
Szegedi Mammut	Hungary		Unknown (local selection) [108]	RS	PCR
Tondina di Tossignano (= Tonda di Tossignano, Tondina)	Italy	Collina Imolese		RS	[49]
Toñi	Spain	CEBAS-CSIC, Murcia	Orange Red x Palsteyn [9]	SS	PCR; [49]
Torunoğlu	Turkey			RS	PCR
Trzii Bucuresti	Romania			SS	[49]
Yamagata	Japan			SS	[49]

^aGenotype: RR: homozygous for PMC2 resistant allele, SS: homozygous for PMC2 susceptible allele, RS: heterozygous.

Table S2. Estimation cost of DNA extraction and PMC genotyping for PPV MAS in apricot.

CTAB DNA EXTRACTION using STRIPS	Price (ul or unit)	Volume used (ul)	Price/sample (€)
CTAB	4.96E-05	340	0.017
B-mercaptoethanol	1.36E-04	0.64	8.72E-05
Chloroform/Isoamyl Alcohol 24:1	3.10E-04	340	0.105
Absolute Ethanol	1.56E-05	510	0.008
Tubes	7.96E-02	2	0.159
Total			0.290

CTAB DNA EXTRACTION using TUBES	Price (ul or unit)	Volume used (ul)	Price/sample (€)
CTAB	4.96E-05	700	0.035
B-mercaptoethanol	1.36E-04	1.4	1.91E-04
Chloroform/Isoamyl Alcohol 24:1	3.10E-04	700	0.217
Absolute Ethanol	1.56E-05	1990	0.031
Tubes	9.76E-03	2	0.020
Total			0.302

PCR	Price (ul or unit)	Volume used (ul)	Price/sample (€)
DreamTaq	0.091	0.16	0.015
dNTPs	0.050	0.5	0.025
primer Forward	0.002	0.5	0.001
primer Reverse	0.002	0.5	0.001
Total			0.041

AGAROSE GEL (400 ml and 96 samples)	Price per gel (400 ml)	Price per sample (96 samples/gel) (€)
Agarose	1.609	0.017
Tae buffer	0.4584	0.005
GelRed® Nucleic Acid Gel Stain 10,000x	0.056	0.001
Thermo Scientific™ GeneRuler 1 kb DNA Ladder	0.864	0.009
6 x DNA loading dye		0.016
Total		0.047

PCR + CAPILLARY ELECTROPHORESIS	Price (ul or unit)	Volume used (ul)	Price/sample (€)
DreamTaq	0.091	0.16	0.015
dNTPs	0.050	0.5	0.025
primer Forward fluorescently labelled	0.136	1	0.136
primer Reverse	0.002	0.5	0.001
Capillary electrophoresis	1.500		1.500
Total			1.676

	Price/sample (€)	Ratio
PCR (2 alleles) + AGAROSE GEL	0.130	1
PCR + CAPILLARY ELECTROPHORESIS	1.676	13
HRM (LightCycler® 480 High Resolution Melting Master)	1	8

Products	Quantity	Price (€, without VAT)	Catalogue number	Website
CTAB	1 l	49.60	A4150.1000	https://www.itwreagents.com/italy/es/product/ctab-tampon-de-lisis-ibiochemicai/A4150
B-mercaptoethanol	50 ml	6.81	11508916	https://www.fishersci.es/shop/products/gibco-2-mercaptoethanol-55mm/11508916#?keyword=2+mercaptoethanol
Chloroform/Isoamyl Alcohol 24:1	500 ml	155	10103971	https://www.fishersci.es/shop/products/chloroform-isoamyl-alcohol-24-1-molecular-biology-dnase-mase-protease-fr-acros-organics/10103971#?keyword=triclorometano+alcohol+isoamilico
Absolute Ethanol	2.5 l	38.90	1.410.861.212	https://www.itwreagents.com/italy/es/product/etanol+absoluto+puro/141086
Eppendorf tubes 2 ml	500 units	4.88	4092.6N	http://www.deltalab.es/producto/microtubos-2-ml/
8-well 1,2ml strip tubes	8x120 units	52.84	732-5559	https://es.vwr.com/store/product/3217966/tubos-cluster-1-2-ml
8-well 1,2ml strip caps	8x120 units	27.43	732-5560	https://es.vwr.com/store/product/3217966/tubos-cluster-1-2-ml
DreamTaq	20x500 units	912.60	EP0704	https://www.fishersci.es/shop/products/fermentas-dreamtaq-dna-polymerase/10679320
dNTPs	4 x 25 umol 100 mM	124	10520651	https://www.fishersci.es/shop/products/fermentas-dntp-set/10520651
Primer	20 nm	4		https://oligos.condalab.com/
Primer fluorescently labelled	10 nm	136		https://www.thermofisher.com/order/custom-oligo/fluorescent-labeled-primers
Agarose	500 g	166.25	8017	https://www.condalab.com/int/en/molecular-and-cellular-biology/1719-8456-agarose-d1-low-eeo-gqt.html
TAE buffer 50x	1 l	57.30	A4686.1000	https://www.itwreagents.com/italy/es/product/tae%2C+tamp%C3%B3n+%2850x%29+para+biolog%C3%ADa+molecul ar/A4686
GelRed® Nucleic Acid Gel Stain 10,000x Thermo Scientific™	0.5 ml	120	BT-41003	https://www.biogen.es/es/biotium/957791-gelred-nucleic-acid-gel-stain-10000x.html
GeneRuler 1 kb DNA Ladder	5 x 50 µg	108	11823963	https://www.fishersci.es/shop/products/fermentas-generuler-1kb-dna-ladder/11823963
6 x DNA loading dye	4 ml	63	16042545	https://www.fishersci.es/shop/products/6-x-dna-loading-dye/16042545

Dneasy Plant mini kit	250 units	858	69106	https://www.qiagen.com/es/products/discovery-and-translational-research/dna-rna-purification/dna-purification/genomic-dna/dneasy-plant-mini-kit/?clear=true#orderinginformation
LightCycler® 480 High Resolution Melting Master	500 x 20 µL reactions	500	4909631001	https://lifescience.roche.com/en_es/products/lightcycler14301-480-high-resolution-melting-master.html