

Supplemental Table 8. Cross comparison of genes significantly differentially regulated by PPV (≥ 2.5 - or ≤ -2.5 -fold) in this study with the *Arabidopsis* genes regulated by other positive sense RNA viruses

AGI locus	Arabidopsis gene differentially regulated in this study	FC ^a	FC ^b	FC; hpi, ssRNA virus	References
Group A. Genes induced by infections of PPV and other positive sense RNA viruses					
At1g12010	1-Aminocyclopropane-1-Carboxylate Oxidase, Putative / Acc Oxidase, Putative	3.58		1.7 ; 48; CMV-Y	Ishihara et al. (2004)
At5g20000	26S Proteasome Aaa-Atpase Subunit, Putative	2.72		1.65 ; 48; CMV-Y	Ishihara et al. (2004)
At5g05780	26S Proteasome Non-Atpase Regulatory Subunit 7, Putative	1.95		3.83 ; 48; CMV-Y	Ishihara et al. (2004)
At2g37220	29 Kda Ribonucleoprotein, Chloroplast, Putative / Rna-Binding Protein Cp29, Putative	3.16		1.15 ; 48; CMV-Y	Ishihara et al. (2004)
At4g39980	2-Dehydro-3-Deoxyphosphoheptonate Aldolase 1	1.68		1.94 ; 48; CMV-Y	Ishihara et al. (2004)
At5g23010	2-Isopropylmalate Synthase 3 (Ims3)	2.55		1.48 ; 6; CMV-Y	Ishihara et al. (2004)
At2g25450	2-Oxoglutarate-Dependent Dioxygenase, Putative	2.31		10.3 ; 12; CMV-Y	Ishihara et al. (2004)
At1g79850	30S Ribosomal Protein S17, Chloroplast / Cs17 (Rps17)	2.53		1.99 ; 48; CMV-Y	Ishihara et al. (2004)
At2g31610	40S Ribosomal Protein S3 (Rps3A)	1.56		4.64 ; 48; CMV-Y	Ishihara et al. (2004)
At3g14990	4-Methyl-5(B-Hydroxyethyl)-Thiazole Monophosphate Biosynthesis Protein, Putative	1.56		2.26 ; 48; CMV-Y	Ishihara et al. (2004)
At1g07320	50S Ribosomal Protein L4, Chloroplast (Cl4)	1.59		1.11 ; 24; CMV-Y	Ishihara et al. (2004)
At3g44590	60S Acidic Ribosomal Protein P2 (Rpp2D)	2.25		2.49 ; 12; CMV-Y	Ishihara et al. (2004)
At3g55130	ABC Transporter Family Protein	2.14		0.7 ; 3, 5 and 18 ; CMV-Y	Marathe et al. (2004)
At5g64840	ABC Transporter Family Protein	4.34		1.13 ; 6 ; CMV-Y	Ishihara et al. (2004)
At1g49240	Actin 8 (Act8)	2.74		1.63 ; 24 ; CMV-Y	Ishihara et al. (2004)
At2g38440	Actin Microfilament	5.24		1.02 ; 6 ; CMV-Y	Ishihara et al. (2004)
At3g05420	Acyl-Coa Binding Family Protein	2.91		4.74 ; 12 ; CMV-Y	Ishihara et al. (2004)
At4g27780	Acyl-Coa Binding Protein 2 (Acbp2)	4.24		1 ; 6 ; CMV-Y	Ishihara et al. (2004)
At4g16760	Acyl-Coa Oxidase (Acx1)	3.72		1.87 ; 48 ; CMV-Y	Ishihara et al. (2004)
At3g23810	Adenosylhomocysteinase, Putative	1.98		1.26 ; 6 ; CMV-Y	Ishihara et al. (2004)
At4g17330	Agenet Domain-Containing Protein	6.61		3.28 ; 12 ; CMV-Y	Ishihara et al. (2004)
At1g54100	Aldehyde Dehydrogenase, Putative / Antiquitin, Putative	2.35		1.81 ; 24 ; CMV-Y	Ishihara et al. (2004)
At2g37770	Aldo/Keto Reductase Family Protein	3.18		2.1-5.4; 4 ; TMV	Golem and Culver (2003)
At1g11860	Aminomethyltransferase, Putative	2.62		1.39 ; 6; CMV-Y	Ishihara et al. (2004)
At4g13510	Ammonium Transporter 1, Member 1 (Amt1.1)	3.43		1.63 ; 48 ; CMV-Y	Ishihara et al. (2004)
At2g38290	Ammonium Transporter 2 (Amt2)	2.71		3.3 ; 48 ; CMV-Y	Ishihara et al. (2004)
At4g26370	Antitermination Nusb Domain-Containing Protein	2.12		1.24 ; 6 ; CMV-Y	Ishihara et al. (2004)
At5g65010	Asparagine Synthetase 2 (Asn2)	3.66		2.14 ; 12 ; CMV-Y	Ishihara et al. (2004)
At5g19550	Aspartate Aminotransferase, Cytoplasmic Isozyme 1 / Transaminase A (Asp2)	2.99		1.82 ; 48 ; CMV-Y	Ishihara et al. (2004)
At3g54400	Aspartyl Protease Family Protein	1.42		0.75 ; 3, 5 and 18 ; CMV-Y	Marathe et al. (2004)
At4g30190	Atpase 2, Plasma Membrane-Type, Putative	2.64		1.05 ; 48 ; CMV-Y	Ishihara et al. (2004)
At2g42280	Basic Helix-Loop-Helix (Bhlh) Family Protein	10.59		1.77 ; 3, 5 and 18 ; CMV-Y	Marathe et al. (2004)
At4g16430	Basic Helix-Loop-Helix (Bhlh) Family Protein	1.71		1.88 ; 48 ; CMV-Y	Ishihara et al. (2004)
At4g36540	Basic Helix-Loop-Helix (Bhlh) Family Protein	1.98		1.34 ; 3, 5 and 18 ; CMV-Y	Marathe et al. (2004)
At4g15210	Beta-Amylase (Bmy1)	1.71		1.65 ; 48 ; CMV-Y	Ishihara et al. (2004)
At2g26250	Beta-Ketoacyl-Coa Synthase Family (Fiddlehead) (Fdh)	4.36		1.12 ; 6 ; CMV-Y	Ishihara et al. (2004)
At3g49680	Branched-Chain Amino Acid Aminotransferase 3	2.14		1.97 ; 24 ; CMV-Y	Ishihara et al. (2004)
At5g62390	Calmodulin-Binding Family Protein	2.26		1.53 ; 6 ; CMV-Y	Ishihara et al. (2004)
At5g61790	Calnexin 1 (Cnx1)	3.87		4.49 ; 48 ; CMV-Y	Ishihara et al. (2004)
At1g56340	Calreticulin 1 (Crt1)	3.28		5.15 ; 48 ; CMV-Y	Ishihara et al. (2004)
At4g35090	Catalase 2	3.56		1.54 ; 6 ; CMV-Y	Ishihara et al. (2004)
At5g01810	Cbl-Interacting Protein Kinase 15 (Cipk15)	2.24		2.13 ; 48 ; CMV-Y	Ishihara et al. (2004)
At1g72830	CCAAT-Binding Transcription Factor (Cbf-B/Nf-Ya) Family Protein	1.43		2.63 ; 48 ; CMV-Y	Ishihara et al. (2004)
At5g47640	CCAAT-Box Binding Transcription Factor Subunit B	1.25		-5.03 ; 48 ; CMV-Y	Ishihara et al. (2004)
At3g19820	Cell Elongation Protein / Dwarf1 / Diminuto (Dim)	5.46		1.49 ; 24 ; CMV-Y	Ishihara et al. (2004)
At5g05170	Cellulose Synthase, Catalytic Subunit (Ath-B)	3.25		1.24 ; 6 ; CMV-Y	Ishihara et al. (2004)
At1g02205	Cer1 Protein	7.04		0.63 ; 3, 5 and 18 ; CMV-Y	Marathe et al. (2004)

At5g13930	Chalcone Synthase / Naringenin-Chalcone Synthase	9.13	1.3 ; 12; CMV-Y	Ishihara et al. (2004)
At2g38000	Chaperone Protein Dnaj-Related	2.06	2.1–2.6; 5; CMV-Y	Ishihara et al. (2004)
At2g28000	Chaperonin Alpha Subunit	3.06	1.99 ; 24; CMV-Y	Ishihara et al. (2004)
At3g02530	Chaperonin, Putative	2.02	2.08 ; 24; CMV-Y	Ishihara et al. (2004)
At3g51820	Chlorophyll Synthetase, Putative	1.82	1.23 ; 12; CMV-Y	Ishihara et al. (2004)
At2g30490	Cinnamic Acid 4-Hydroxylase (C4H)	1.84	2.09 ; 48; CMV-Y	Ishihara et al. (2004)
At2g44350	Citrate Synthase, Mitochondrial, Putative	1.70	1.55 ; 6; CMV-Y	Ishihara et al. (2004)
At5g61900	Copine Bonzai1 (Bon1)	1.20	3.64 ; 48; CMV-Y	Ishihara et al. (2004)
At4g37430	Cytochrome P450 81F1 (Cyp81F1) (Cyp91A2)	1.48	5.0–24.4 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At4g13770	Cytochrome P450 Family Protein	2.07	1.16 ; 6; CMV-Y	Ishihara et al. (2004)
At4g37330	Cytochrome P450 Family Protein	1.60	2.23 ; 24; CMV-Y	Ishihara et al. (2004)
At1g60420	Dc1 Domain-Containing Protein	1.91	2.3 ; 24; CMV-Y	Ishihara et al. (2004)
At3g58510	Dead Box Rna Helicase, Putative (Rh11)	2.52	2.57 ; 12; CMV-Y	Ishihara et al. (2004)
At4g00660	Dead/Deah Box Helicase, Putative	2.29	1.82 ; 12; CMV-Y	Ishihara et al. (2004)
At2g47940	Degp2 Protease (Degp2)	3.41	1.1 ; 12; CMV-Y	Ishihara et al. (2004)
At1g72040	Deoxynucleoside Kinase Family	3.84	1.29 ; 6; CMV-Y	Ishihara et al. (2004)
At5g23450	Diacylglycerol Kinase Family Protein	2.57	-1.59 ; 48; CMV-Y	Ishihara et al. (2004)
At3g56940	Dicarboxylate Diiron Protein, Putative (Crd1)	2.53	1.41 ; 24; CMV-Y	Ishihara et al. (2004)
At4g33300	Disease Resistance Protein (Cc-Nbs-Lrr Class), Putative	2.10	4.57 ; 48; CMV-Y	Ishihara et al. (2004)
At2g20560	DNAJ Heat Shock Family Protein	3.75	0.62 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g44110	DNAJ Heat Shock Protein, Putative (J3)	4.66	1.4 ; 24; CMV-Y	Ishihara et al. (2004)
At1g59610	Dynammin-Like Protein, Putative (Adl3)	4.87	3.25 ; 48; CMV-Y	Ishihara et al. (2004)
At4g24510	Eceriferum Protein (Cer2)	1.83	0.6 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g29060	Elongation Factor Ts Family Protein	3.50	1.08 ; 12; CMV-Y	Ishihara et al. (2004)
At4g20360	Elongation Factor Tu / Ef-Tu (Tufa)	1.44	1.39 ; 6; CMV-Y	Ishihara et al. (2004)
At2g46280	Eukaryotic Translation Initiation Factor 3 ; Eif-3	2.06	1.25 ; 48; CMV-Y	Ishihara et al. (2004)
At1g26770	Expansin, Putative (Exp10)	2.68	0.68 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g09340	Expressed Protein	2.17	1.23 ; 6; CMV-Y	Ishihara et al. (2004)
At1g18620	Expressed Protein	2.57	1.39 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g27200	Expressed Protein	2.05	2.7–4.4; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At1g56660	Expressed Protein	4.04	2.23 ; 24; CMV-Y	Ishihara et al. (2004)
At1g64680	Expressed Protein	2.60	1.18 ; 6; CMV-Y	Ishihara et al. (2004)
At1g71970	Expressed Protein	3.46	1.36 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g77500	Expressed Protein	2.24	1.24 ; 24; CMV-Y	Ishihara et al. (2004)
At1g79270	Expressed Protein	2.09	0.68 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g37660	Expressed Protein	1.83	1.42 ; 6; CMV-Y	Ishihara et al. (2004)
At3g04630	Expressed Protein	3.06	0.68 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g58600	Expressed Protein	1.77	5.99 ; 48; CMV-Y	Ishihara et al. (2004)
At3g63170	Expressed Protein	2.15	1.02 ; 12; CMV-Y	Ishihara et al. (2004)
At4g28080	Expressed Protein	6.62	1.03 ; 24; CMV-Y	Ishihara et al. (2004)
At4g28910	Expressed Protein	4.51	1.03 ; 6; CMV-Y	Ishihara et al. (2004)
At5g05250	Expressed Protein	1.59	1.6 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g17710	F-Box Family Protein	2.21	-2.1; 14; TMV	Ishihara et al. (2004)
At5g54160	Flavonol 3-O-Methyltransferase 1	2.40	3.02 ; 24; CMV-Y	Ishihara et al. (2004)
At3g52930	Fructose-Bisphosphate Aldolase, Putative	5.32	2.02 ; 12; CMV-Y	Ishihara et al. (2004)
At1g74470	Geranylgeranyl Reductase	1.91	1.31 ; 12; CMV-Y	Ishihara et al. (2004)
At1g31910	Ghmp Kinase Family Protein	2.65	5.3 ; 48; CMV-Y	Ishihara et al. (2004)
At5g14920	Gibberellin-Regulated Family Protein	3.04	1.84 ; 24; CMV-Y	Ishihara et al. (2004)
At2g13440	Glucose-Inhibited Division Family A Protein	1.64	7.12 ; 12; CMV-Y	Ishihara et al. (2004)
At1g65960	Glutamate Decarboxylase 2 (Gad 2)	1.74	4.94 ; 12; CMV-Y	Ishihara et al. (2004)
At5g04140	Glutamate Synthase (Glu1) / Ferredoxin-Dependent Glutamate Synthase (Fd-Gogat 1)	2.90	1.22 ; 6; CMV-Y	Ishihara et al. (2004)
At5g63570	Glutamate-1-Semialdehyde 2,1-Aminomutase 1 (Gsa 1)	2.33	3.62 ; 48; CMV-Y	Ishihara et al. (2004)

At4g23100	Glutamate-Cysteine Ligase / Gamma-Glutamylcysteine Synthetase (Gsh1)	2.48		1.45 ; 12; CMV-Y	Ishihara et al. (2004)
At1g30400	Glutathione S-Conjugate ABC Transporter (Mrp1)	4.59		1.32 ; 24; CMV-Y	Ishihara et al. (2004)
At1g78370	Glutathione S-Transferase, Putative	1.43		1.22 ; 6; CMV-Y	Ishihara et al. (2004)
At3g04120	Glyceraldehyde-3-Phosphate Dehydrogenase, Cytosolic (Gapc)	3.52		1.81 ; 48; CMV-Y	Ishihara et al. (2004)
At2g26080	Glycine Dehydrogenase (Decarboxylating), Putative	6.53		1.38 ; 24; CMV-Y	Ishihara et al. (2004)
At4g33010	Glycine Dehydrogenase (Decarboxylating), Putative	4.58		1.3 ; 6; CMV-Y	Ishihara et al. (2004)
At4g37930	Glycine Hydroxymethyltransferase	1.85		1.21 ; 12; CMV-Y	Ishihara et al. (2004)
At1g52400	Glycosyl Hydrolase Family 1 Protein / Beta-Glucosidase, Putative (Bg1)	2.80		4.78 ; 12; CMV-Y	Ishihara et al. (2004)
At2g18700	Glycosyl Transferase Family 20 Protein / Trehalose-Phosphatase Family Protein	3.55		1.8 ; 4; TMV	Golem and Culver (2003)
At3g07160	Glycosyl Transferase Family 48 Protein	2.34		3.33 ; 48; CMV-Y	Ishihara et al. (2004)
At5g56030	Heat Shock Protein 81-2 (Hsp81-2)	4.63		0.67 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g56000	Heat Shock Protein 81-4 (Hsp81-4)	4.75		0.65 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g56530	Hydroxyproline-Rich Glycoprotein Family Protein	8.00	7.94	0.73 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g39050	Hydroxyproline-Rich Glycoprotein Family Protein	2.53		1.67 ; 12; CMV-Y	Ishihara et al. (2004)
At5g09530	Hydroxyproline-Rich Glycoprotein Family Protein	90.14		4.32 ; 48; CMV-Y	Ishihara et al. (2004)
At5g56650	Iaa-Amino Acid Hydrolase 3 (Iar3) (III1)	1.62		1.35 ; 12; CMV-Y	Ishihara et al. (2004)
At5g10170	Inositol-3-Phosphate Synthase, Putative	2.12		1.28 ; 24; CMV-Y	Ishihara et al. (2004)
At4g39240	Kelch Repeat-Containing F-Box Family Protein	1.28		1.26 ; 6; CMV-Y	Ishihara et al. (2004)
At3g16630	Kinesin Motor Family Protein	2.23		1.32 ; 48; CMV-Y	Ishihara et al. (2004)
At3g12740	Lem3 (Ligand-Effect Modulator 3) Family Protein / Cdc50 Family Protein	1.62		1.48 ; 24; CMV-Y	Ishihara et al. (2004)
At1g28440	Leucine-Rich Repeat Transmembrane Protein Kinase, Putative	1.90		2.76 ; 48; CMV-Y	Ishihara et al. (2004)
At1g73080	Leucine-Rich Repeat Transmembrane Protein Kinase, Putative	1.83		0.74 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g28540	Luminal Binding Protein 1 (Bip-1) (Bp1)	4.60		4.8 ; 48; CMV-Y	Ishihara et al. (2004)
At2g36830	Major Intrinsic Family Protein / Mip Family Protein	5.91		1.27 ; 12; CMV-Y	Ishihara et al. (2004)
At5g09660	Malate Dehydrogenase, Glyoxysomal	1.58		1.36 ; 12; CMV-Y	Ishihara et al. (2004)
At3g18830	Mannitol Transporter, Putative	1.80		1.48 ; 48; CMV-Y	Ishihara et al. (2004)
At5g12080	Mechanosensitive Ion Channel Domain-Containing Protein	2.29		1.85 ; 24; CMV-Y	Ishihara et al. (2004)
At1g15340	Methyl-Cpg-Binding Domain-Containing Protein	4.97		1.41 ; 6; CMV-Y	Ishihara et al. (2004)
At4g34030	Methylcrotonyl-Coa Carboxylase Beta Chain	2.86		1.02 ; 6; CMV-Y	Ishihara et al. (2004)
At1g25380	Mitochondrial Substrate Carrier Family Protein	1.42		2.24 ; 48; CMV-Y	Ishihara et al. (2004)
At2g43790	Mitogen-Activated Protein Kinase, Putative / Mapk, Putative (Mpk6)	1.45		3.42 ; 12; CMV-Y	Ishihara et al. (2004)
At1g28010	Multidrug Resistance P-Glycoprotein, Putative	3.11		0.63 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g05320	Myosin-Related	2.53		1.13 ; 48; CMV-Y	Ishihara et al. (2004)
At1g54010	Myosinase-Associated Protein, Putative	5.50		4.44 ; 24; CMV-Y	Ishihara et al. (2004)
At5g17770	Nadh-Cytochrome B5 Reductase	2.03		1.67 ; 6; CMV-Y	Ishihara et al. (2004)
At5g04950	Nicotianamine Synthase, Putative	2.21		1.96 ; 6; CMV-Y	Ishihara et al. (2004)
At1g37130	Nitrate Reductase 2 (Nr2)	3.09		1.3 ; 6; CMV-Y	Ishihara et al. (2004)
At5g63310	Nucleotide Diphosphate Kinase Ii, Chloroplast (Ndpk2)	1.61		1.82 ; 12; CMV-Y	Ishihara et al. (2004)
At5g64290	Oxoglutarate/Malate Translocator, Putative	4.90		1.15 ; 6; CMV-Y	Ishihara et al. (2004)
At3g09300	Oxysterol-Binding Family Protein	1.98		1.9 ; 24; CMV-Y	Ishihara et al. (2004)
At3g54920	Pectate Lyase, Putative / Powdery Mildew Susceptibility Protein (Pmr6)	1.40		1.03 ; 12; CMV-Y	Ishihara et al. (2004)
At1g11580	Pectin Methyltransferase, Putative	1.79		2.2-3.8; 4; CMV-Y	Ishihara et al. (2004)
At4g33220	Pectinesterase Family Protein	1.49		6.99 ; 48; CMV-Y	Ishihara et al. (2004)
At2g15690	Pentatricopeptide (Ppr) Repeat-Containing Protein	3.78		1.02 ; 12; CMV-Y	Ishihara et al. (2004)
At3g04760	Pentatricopeptide (Ppr) Repeat-Containing Protein	1.80		1.13 ; 48; CMV-Y	Ishihara et al. (2004)
At1g12470	Pep3/Vps18/Deep Orange Family Protein	2.58		2 ; 24; CMV-Y	Ishihara et al. (2004)
At2g42600	Phosphoenolpyruvate Carboxylase, Putative / Pep Carboxylase, Putative (Ppc2)	5.26		1.53 ; 12; CMV-Y	Ishihara et al. (2004)
At3g18000	Phosphoethanolamine N-Methyltransferase 1 / Peamt 1 (Nmt1)	2.73		1.68 ; 24; CMV-Y	Ishihara et al. (2004)
At5g56630	Phosphofructokinase Family Protein	2.56		2.09 ; 24; CMV-Y	Ishihara et al. (2004)
At5g61580	Phosphofructokinase Family Protein	1.31		3.17 ; 48; CMV-Y	Ishihara et al. (2004)
At1g01610	Phospholipid/Glycerol Acyltransferase Family Protein	4.83		0.69 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g32060	Phosphoribulokinase (Prk) / Phosphopentokinase	4.77		1.22 ; 6; CMV-Y	Ishihara et al. (2004)

At3g19850	Phototropic-Responsive Nph3 Family Protein	1.55	1.55 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g17870	Plastid-Specific Ribosomal Protein-Related	3.03	1.18 ; 6; CMV-Y	Ishihara et al. (2004)
At1g76100	Plastocyanin	1.96	1.51 ; 24; CMV-Y	Ishihara et al. (2004)
At5g65260	Polyadenylate-Binding Protein Family Protein / Pabp Family Protein	2.13	1.94 ; 12; CMV-Y	Ishihara et al. (2004)
At2g40540	Potassium Transporter, Putative (Kt2)	2.38	1.33 ; 6; CMV-Y	Ishihara et al. (2004)
At3g43720	Protease Inhibitor/Seed Storage/Lipid Transfer Protein (Ltp) Family Protein	1.99	0.7 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g21750	Protein Disulfide Isomerase, Putative	4.63	6.77 ; 48; CMV-Y	Ishihara et al. (2004)
At1g77510	Protein Disulfide Isomerase, Putative	4.22	3.86 ; 48; CMV-Y	Ishihara et al. (2004)
At3g08760	Protein Kinase Family Protein	1.96	2.0-2.5 ; 4 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At4g32250	Protein Kinase Family Protein	1.92	2.08 ; 24; CMV-Y	Ishihara et al. (2004)
At5g02760	Protein Phosphatase 2C Family Protein / Pp2C Family Protein	1.63	1.67 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g05640	Protein Phosphatase 2C, Putative / Pp2C, Putative	2.55	0.53 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g01690	Protoporphyrinogen Oxidase (Ppox)	3.91	1.03 ; 12; CMV-Y	Ishihara et al. (2004)
At2g15190	Pseudogene, Ulp1 Protease Family	21.63	3.22 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g46790	Pseudo-Response Regulator 9 (Apr9) / Timing Of Cab Expression 1-Like Protein (Tl1)	1.61	0.73 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g36580	Pyruvate Kinase, Putative	3.83	2.27 ; 48; CMV-Y	Ishihara et al. (2004)
At1g19880	Regulator Of Chromosome Condensation (Rcc1) Family Protein	1.63	1.29 ; 6; CMV-Y	Ishihara et al. (2004)
At2g40760	Rhodanese-Like Domain-Containing Protein	1.79	2.2-3.4; 4; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At2g39730	Ribulose Bisphosphate Carboxylase/Oxygenase Activase / Rubisco Activase	4.11	1.03 ; 6; CMV-Y	Ishihara et al. (2004)
At1g32490	Rna Helicase, Putative	3.99	1.42 ; 48; CMV-Y	Ishihara et al. (2004)
At5g54900	Rna-Binding Protein 45 (Rbp45), Putative	1.79	1.04 ; 6; CMV-Y	Ishihara et al. (2004)
At3g52380	RNA-Binding Protein Cp33, Putative	1.53	1.7 ; 24; CMV-Y	Ishihara et al. (2004)
At4g17230	Scarecrow-Like Transcription Factor 13 (Scl13)	2.92	4.28 ; 48; CMV-Y	Ishihara et al. (2004)
At3g17410	Serine/Threonine Protein Kinase, Putative	3.36	1.95 ; 48; CMV-Y	Ishihara et al. (2004)
At3g58040	Seven In Absentia (Sina) Family Protein	2.88	1.62 ; 48; CMV-Y	Ishihara et al. (2004)
At5g49530	SIN-Like Family Protein	2.23	2.43 ; 12; CMV-Y	Ishihara et al. (2004)
At5g53120	Spermidine Synthase, Putative / Putrescine Aminopropyltransferase, Putative	2.30	1.92 ; 12; CMV-Y	Ishihara et al. (2004)
At3g10420	Sporulation Protein-Related	3.27	3.47 ; 48; CMV-Y	Ishihara et al. (2004)
At5g66760	Succinate Dehydrogenase (Ubiquinone) Flavoprotein	3.01	1.48 ; 24; CMV-Y	Ishihara et al. (2004)
At1g12520	Superoxide Dismutase Copper Chaperone, Putative	2.93	2.6-4.3 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At1g22930	T-Complex Protein 11	2.26	1.66 ; 48; CMV-Y	Ishihara et al. (2004)
At3g62770	Transport Protein-Related	2.62	2.67 ; 48; CMV-Y	Ishihara et al. (2004)
At5g24380	Transporter, Putative	1.28	1.25 ; 48; CMV-Y	Ishihara et al. (2004)
At5g38530	Tryptophan Synthase-Related	5.85	3.06 ; 48; CMV-Y	Ishihara et al. (2004)
At1g20010	Tubulin Beta-5 Chain (Tub5)	1.94	1.29 ; 24; CMV-Y	Ishihara et al. (2004)
At1g24100	Udp-Glucuronosyl/Udp-Glucosyl Transferase Family Protein	2.38	1.5 ; 48; CMV-Y	Ishihara et al. (2004)
At2g38850	Unknown Protein	1.59	2.5-6.5 ; 2 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At3g18890	UV-B regulated protein 1	4.40	1.06 ; 24; CMV-Y	Ishihara et al. (2004)
At1g21380	Vhs Domain-Containing Protein / Gat Domain-Containing Protein	1.41	0.74 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g32230	Wwe Domain-Containing Protein / Ceo Protein, Putative (Ceo)	2.55	1.67 ; 48; CMV-Y	Ishihara et al. (2004)
At1g68520	Zinc Finger (B-Box Type) Family Protein	3.20	2.16 ; 6; CMV-Y	Ishihara et al. (2004)
At4g34100	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	3.70	3.09 ; 48; CMV-Y	Ishihara et al. (2004)
At2g25900	Zinc Finger (Cch-Type) Family Protein	3.78	1.36 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g37910	Heat Shock Protein 70, Mitochondrial, Putative / Hsp70, Mitochondrial, Putative	3.64	1.16 ; 10; ORMV / 1.07; ; 10; TuMV	Yang et al. (2007)
At2g47800	Glutathione-Conjugate Transporter (Mrp4)	8.79	1.48;10; ORMV /1.19; 10; TuMV	Yang et al. (2007)
At1g23800	Aldehyde Dehydrogenase, Mitochondrial (Aldh3)	11.08	1.79;10; ORMV /1.92; 10; TuMV	Yang et al. (2007)
At5g09590	Heat Shock Protein 70 / Hsp70 (Hsc70-5)	6.67	1.98;10; ORMV /1.59; 10; TuMV	Yang et al. (2007)
At3g13380	Leucine-Rich Repeat Family Protein	5.09	1.99;10; ORMV /1.63; 10; TuMV	Yang et al. (2007)
At1g09210	Calreticulin 2 (Crt2)	2.71	2.14;10; ORMV /1.43; 10; TuMV	Yang et al. (2007)
At1g30700	Fad-Binding Domain-Containing Protein	4.36	4.97;10; ORMV /3.43; 10; TuMV	Yang et al. (2007)
At5g59990	Expressed protein	2.97	0.742; 3, 5 and 18; CMV-Y	Marathe et al. (2004)

Group B. Genes induced during PPV infection but repressed by infections of other positive sense RNA viruses

At1g62380	1-Aminocyclopropane-1-Carboxylate Oxidase, Putative / Acc Oxidase, Putative	2.62		-2.23 ; 12; CMV-Y	Ishihara et al. (2004)
At3g53460	29 Kda Ribonucleoprotein, Chloroplast / Rna-Binding Protein Cp 29	2.21	-2.86	-1.5 ; 12; CMV-Y	Ishihara et al. (2004)
At1g18450	Actin-Related Protein 4 (Arp4)	1.50		-2.01 ; 6; CMV-Y	Ishihara et al. (2004)
At5g64960	Cyclin-Dependent Kinase, Putative / Cdk, Putative	2.04		-2.32 ; 12; CMV-Y	Ishihara et al. (2004)
At5g25610	Dehydration-Responsive Protein (Rd22)	1.51		-2.43 ; 24; CMV-Y	Ishihara et al. (2004)
At4g10060	Expressed Protein	2.17		-2.1 ; 14; TMV	Ishihara et al. (2004)
At2g21330	Fructose-Bisphosphate Aldolase, Putative	2.69		-4.98 ; 48; CMV-Y	Ishihara et al. (2004)
At5g35630	Glutamine Synthetase (Gs2)	1.37		-2.54 ; 48; CMV-Y	Ishihara et al. (2004)
At1g42970	Glyceraldehyde-3-Phosphate Dehydrogenase	2.10		-1.32 ; 48; CMV-Y	Ishihara et al. (2004)
At5g65310	Homeobox-Leucine Zipper Protein 5 (Hb-5)	1.78		-7.23 ; 48; CMV-Y	Ishihara et al. (2004)
At1g11840	Lactoylglutathione Lyase, Putative / Glyoxalase I, Putative	2.62		-1.66 ; 6; CMV-Y	Ishihara et al. (2004)
At5g47210	Nuclear Rna-Binding Protein, Putative	2.44		-2.04 ; 12; CMV-Y	Ishihara et al. (2004)
At5g46390	Peptidase S41 Family Protein	1.54		-1.84 ; 48; CMV-Y	Ishihara et al. (2004)
At1g21880	Peptidoglycan-Binding Lysm Domain-Containing Protein	1.93		-1.59 ; 48; CMV-Y	Ishihara et al. (2004)
At3g07100	Protein Transport Protein Sec24, Putative	4.39		-1.69 ; 12; CMV-Y	Ishihara et al. (2004)
At1g15290	Tetratricopeptide Repeat (Tpr)-Containing Protein	4.20		-2.13 ; 48; CMV-Y	Ishihara et al. (2004)
At2g29630	Thiamine Biosynthesis Family Protein / Thic Family Protein	2.78		-2.32 ; 48; CMV-Y	Ishihara et al. (2004)
At5g01210	Transferase Family Protein	1.63		-1.42 ; 24; CMV-Y	Ishihara et al. (2004)
At3g02660	Trna Synthetase Class I (W And Y) Family Protein	1.45		-3.5 ; 12; CMV-Y	Ishihara et al. (2004)
At5g67030	Zeaxanthin Epoxidase (Zep) (Aba1)	2.41		-2.77 ; 48; CMV-Y	Ishihara et al. (2004)
At3g51950	Zinc Finger (CCCH-Type) Family Protein	1.29		-1.57 ; 12; CMV-Y	Ishihara et al. (2004)
At1g09750	Chloroplast Nucleoid Dna-Binding Protein-Related	4.53		-13.12; 10; ORMV / -10.24;10; ORMV	Yang et al. (2007)
At4g29020	Glycine-Rich Protein	3.40		-9.67; 10; ORMV / -8.61; 10; ORMV	Yang et al. (2007)
At2g37640	Expansin, Putative (Exp3)	4.33		-7.51; 10; ORMV / -4.91; 10; ORMV	Yang et al. (2007)
At2g20750	Beta-Expansin, Putative (Expb1)	6.08		-5.69; 10; ORMV / -5.99; 10; ORMV	Yang et al. (2007)
At2g32100	Ovate Protein-Related	3.02		-3.87; 10; ORMV / -1.94; 10; ORMV	Yang et al. (2007)
At5g01240	Amino Acid Permease, Putative	2.80		-3.38; 10; ORMV / -2.07; 10; ORMV	Yang et al. (2007)
At2g26330	Leucine-Rich Repeat Family Protein	4.76		-2.97; 10; ORMV / -2.13; 10; ORMV	Yang et al. (2007)
At1g71695	Peroxidase 12 (Per12) (P12) (Prxr6)	3.68		-2.31; 10; ORMV / -1.49; 10; ORMV	Yang et al. (2007)
At5g03650	1,4-Alpha-Glucan Branching Enzyme / Starch Branching Enzyme Class Ii (Sbe2-2)	2.57		-2.26; 10; ORMV / -1.46; 10; ORMV	Yang et al. (2007)
At1g66150	Leucine-Rich Repeat Family Protein	3.94		-1.96; 10; ORMV / -1.63; 10; ORMV	Yang et al. (2007)
At4g32330	Expressed Protein	4.49		-1.94; 10; ORMV / -1.71; 10; ORMV	Yang et al. (2007)
At3g50650	Scarecrow-Like Transcription Factor 7 (Scf7)	3.36		-1.93; 10; ORMV / -1.18; 10; ORMV	Yang et al. (2007)
At5g15450	Heat Shock Protein 100, Putative	5.13		-1.64; 10; ORMV / -1.30; 10; ORMV	Yang et al. (2007)
At5g16820	Heat Shock Factor Protein 3 (Hsf3)	2.60		-1.54; 10; ORMV / -1.26; 10; ORMV	Yang et al. (2007)
At4g24280	Heat Shock Protein 70, Putative / Hsp70, Putative	4.68		-1.42; 10; ORMV / -1.42; 10; ORMV	Yang et al. (2007)
At5g23570	Xs Domain-Containing Protein / Xs Zinc Finger Domain-Containing Protein-Related	3.25		-1.36; 10; ORMV / -1.46; 10; ORMV	Yang et al. (2007)
At2g20610	Aminotransferase, Putative	4.41		-1.17; 10; ORMV / -1.09; 10; ORMV	Yang et al. (2007)
At1g10290	Dynammin-Like Protein 6 (Adl6)	2.69		-1.16; 10; ORMV / -1.1; 10; ORMV	Yang et al. (2007)
At5g49910	Heat Shock Protein 70 / Hsp70 (Hsc70-7)	2.63		-1.06; 10; ORMV / -1.18; 10; ORMV	Yang et al. (2007)
At4g31670	Ubiquitin Carboxyl-Terminal Hydrolase Family Protein	3.94		-1.02; 10; ORMV / -1.08; 10; ORMV	Yang et al. (2007)

Group C. Genes repressed during PPV infection but induced by infections of other positive sense RNA viruses

At1g59860	17.6 Kda Class I Heat Shock Protein (Hsp17.6A-Ci)	-2.31		0.71 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g21870	26.5 Kda Class P-Related Heat Shock Protein (Hsp26.5-P)	-12.74		0.74 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g33850	40S Ribosomal Protein S15, Putative	-1.92		0.09 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g66580	60S Ribosomal Protein L10 (Rpl10C)	-1.55		1.65 ; 48; CMV-Y	Ishihara et al. (2004)
At5g27850	60S Ribosomal Protein L18 (Rpl18C)	-1.49		3.02 ; 48; CMV-Y	Ishihara et al. (2004)
At1g57660	60S Ribosomal Protein L21 (Rpl21E)	-1.95		3.62 ; 48; CMV-Y	Ishihara et al. (2004)
At1g69700	Aba-Responsive Protein (Hva22C)	-2.49		1.9 ; 4; TMV	Golem and Culver (2003)
At5g54720	Ankyrin Repeat Family Protein	-18.14		0.74 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)

At4g03450	Ankyrin Repeat Family Protein	-2.11		5.5-13.2, 4 ; 4.0-11.5 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At1g64380	Ap2 Domain-Containing Transcription Factor, Putative	-1.72		0.64 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g09030	Arabinogalactan-Protein (Agp10)	-1.50		2.77 ; 6; CMV-Y	Ishihara et al. (2004)
At4g12790	Atp-Binding Family Protein	-2.71		1.63 ; 12; CMV-Y	Ishihara et al. (2004)
At3g28930	Avrrpt2-Induced Aig2 Protein (Aig2)	-2.75		4.6-7.6 ; 1; CMV-Y	Ishihara et al. (2004)
At4g14410	Basic Helix-Loop-Helix (Bhlh) Family Protein	-2.51		1.82 ; 12; CMV-Y	Ishihara et al. (2004)
At3g13790	Beta-Fructosidase (Bfruct1) / Beta-Fructofuranosidase	-1.67		2.1-6.0 ; 4; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At3g47650	Bundle-Sheath Defective Protein 2 Family / Bsd2 Family	-4.86		1.16 ; 6; CMV-Y	Ishihara et al. (2004)
At5g39670	Calcium-Binding Ef Hand Family Protein	-4.19		3.67 ; 48; CMV-Y	Ishihara et al. (2004)
At1g21550	Calcium-Binding Protein, Putative	-3.09		0.63 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g41100	Calmodulin-2/3/5 (Cam2) (Cal1)	-4.60		3.2 - 8.8 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At2g43290	Calmodulin-Like Protein (Mss3)	-3.47		4.0-7.3; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At3g50770	Calmodulin-Related Protein, Putative	-2.25		1.34 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g30360	Cbl-Interacting Protein Kinase 11 (Cipk11)	-3.21		0.7 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g04690	Cellular Repressor Of E1A-Stimulated Genes (Creg) Family	-4.58		1.37 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g01700	Chitinase, Putative	-1.50		3.4-8.1 ; 4; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At4g10340	Chlorophyll A-B Binding Protein Cp26, Chloroplast	-1.21		1.68 ; 24; CMV-Y	Ishihara et al. (2004)
At1g71697	Choline Kinase, Putative	-2.99		0.66 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g16500	Cysteine Protease Inhibitor Family Protein / Cystatin Family Protein	-3.01		1.56 ; 48; CMV-Y	Ishihara et al. (2004)
At2g26500	Cytochrome B6F Complex Subunit (Petm), Putative	-3.76		1.6 ; 24; CMV-Y	Ishihara et al. (2004)
At2g41430	Dehydration-Induced Protein (Erd15)	-1.88		1.9 ; 4; TMV	Golem and Culver (2003)
At1g72900	Disease Resistance Protein (Tir-Nbs Class), Putative	-1.14		2.66 ; 48; CMV-Y	Ishihara et al. (2004)
At1g68840	DNA-Binding Protein Rav2 (Rav2)	-2.16		1.34 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g14200	Dnaj Heat Shock N-Terminal Domain-Containing Protein	-3.31	10.29	0.45 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g21840	E3 Ubiquitin Ligase Scf Complex Subunit Skp1/Ask1 (At7), Putative	-3.15		1.37 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g25040	Er Lumen Protein Retaining Receptor, Putative / Hdel Receptor, Putative	-3.18		2.72 ; 48; CMV-Y	Ishihara et al. (2004)
At5g47230	Ethylene-Responsive Element-Binding Factor 5 (Erf5)	-3.03		1.62 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g17490	Ethylene-Responsive Element-Binding Protein, Putative	-1.98		1.58 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g56580	Expressed Protein	-1.42		0.59 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g62520	Expressed Protein	-10.18		0.75 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g59080	Expressed Protein	-2.43		1.41 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g53160	Expressed Protein	-2.97		1.39 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g46295	Expressed Protein	-2.36	-3.08	2.16 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g22270	Expressed Protein	-4.95		1.42 ; 48; CMV-Y	Ishihara et al. (2004)
At5g12010	Expressed Protein	-1.59		0.71 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g60910	Expressed Protein	-2.24		2.48 ; 24; CMV-Y	Ishihara et al. (2004)
At3g10930	Expressed Protein	-2.20		1.61 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At3g22240	Expressed Protein	-1.14		3.28 ; 48; CMV-Y	Ishihara et al. (2004)
At3g08610	Expressed Protein	-3.23		2.07 ; 12; CMV-Y	Ishihara et al. (2004)
At1g67910	Expressed Protein	-1.90		1.39 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g67920	Expressed Protein	-4.97		0.69 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g69610	Expressed Protein	-1.95		0.75 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g24550	Expressed Protein	-4.71		1.9 ; 4; TMV	Golem and Culver (2003)
At1g55480	Expressed Protein	-1.60		1.6 ; 6; CMV-Y	Ishihara et al. (2004)
At2g36630	Expressed Protein	-1.61		0.7 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g32190	Expressed Protein	-2.96		0.68 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g34600	Expressed Protein	-4.84		0.64 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g44090	Expressed Protein	-1.22		2.68 ; 12; CMV-Y	Ishihara et al. (2004)
At2g23120	Expressed Protein	-5.62		0.71 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g08980	F-Box Family Protein (Fbw2)	-2.03		1.59 ; 6; CMV-Y	Ishihara et al. (2004)
At1g77810	Galactosyltransferase Family Protein	-1.56		2.45 ; 48; CMV-Y	Ishihara et al. (2004)
At5g45950	Gdsl-Motif Lipase/Hydrolase Family Protein	-1.95		0.56 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)

At1g28480	Glutaredoxin Family Protein	-1.38		2.3–9.0 ; 4; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At2g31570	Glutathione Peroxidase, Putative	-2.53		2.52 ; 12; CMV-Y	Ishihara et al. (2004)
At1g02930	Glutathione S-Transferase, Putative	-3.47		1.38 ; 48; CMV-Y	Ishihara et al. (2004)
At4g19880	Glutathione S-Transferase-Related	-1.44		2.56 ; 48; CMV-Y	Ishihara et al. (2004)
At3g04640	Glycine-Rich Protein	-1.29		3.14 ; 48; CMV-Y	Ishihara et al. (2004)
At1g74230	Glycine-Rich Rna-Binding Protein	-1.93		1.23 ; 12; CMV-Y	Ishihara et al. (2004)
At4g22720	Glycoprotease M22 Family Protein	-1.89		2.2– 8.8; 4 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At1g70090	Glycosyl Transferase Family 8 Protein	-1.39		1.8 ; 14; TMV	Golem and Culver (2003)
At3g04720	Hevein-Like Protein (Hel)	-4.14		1.15 ; 24; CMV-Y	Ishihara et al. (2004)
At5g49590	Hypothetical Protein	-19.17		0.58 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g06630	Hypothetical Protein	-3.05	-40.97	0.61 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g52240	Kinase partner protein	-8.76		1.05 ; 24; CMV-Y	Ishihara et al. (2004)
At4g02380	Late Embryogenesis Abundant 3 Family Protein / Lea3 Family Protein	-2.33		4.0–27.3 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At1g01470	Late Embryogenesis Abundant Protein, Putative / Lea Protein, Putative	-2.07		0.62 ; 3, 5 and 18; CMV-Y	Whitham et al. (2004)
At5g24210	Lipase Class 3 Family Protein	-1.17		1.87 ; 6; CMV-Y	Ishihara et al. (2004)
At4g21830	Methionine Sulfoxide Reductase Domain-Containing Protein	-3.24		0.71 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g21850	Methionine Sulfoxide Reductase Domain-Containing Protein	-7.00		2.88 ; 48; CMV-Y	Ishihara et al. (2004)
At4g04830	Methionine Sulfoxide Reductase Domain-Containing Protein	-2.02		1.61 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g65820	Microsomal Glutathione S-Transferase, Putative	-4.09		2.26 ; 48; CMV-Y	Ishihara et al. (2004)
At2g22500	Mitochondrial Substrate Carrier Family Protein	-1.83		6.4–21.8 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At1g61990	Mitochondrial Transcription Termination Factor-Related / Mterf-Related	-1.67		4.9–7.9 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At3g09940	Monodehydroascorbate Reductase, Putative	-3.64		2.48 ; 12; CMV-Y	Ishihara et al. (2004)
At2g37130	Peroxidase 21 (Per21) (P21) (Pxr5)	-2.11		1.09 ; 24; CMV-Y	Ishihara et al. (2004)
At3g18160	Peroxin-3 Family Protein	-1.64		3.71 ; 48; CMV-Y	Ishihara et al. (2004)
At2g20260	Photosystem I Reaction Center Subunit IV, Chloroplast, Putative	-2.39		1.84 ; 12; CMV-Y	Ishihara et al. (2004)
At1g30380	Photosystem I Reaction Center Subunit PSAK, Chloroplast, Putative	-1.71		1.41 ; 6; CMV-Y	Ishihara et al. (2004)
At1g52230	Photosystem I Reaction Center Subunit Vi, Chloroplast, Putative	-2.03		1.66 ; 12; CMV-Y	Ishihara et al. (2004)
At2g30570	Photosystem I Reaction Center W Protein-Related	-1.47		2.35 ; 12; CMV-Y	Ishihara et al. (2004)
At5g65870	Phytosulfokines 5 (Psk5)	-4.91		0.73 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g20340	Plastocyanin	-1.45		1.89 ; 24; CMV-Y	Ishihara et al. (2004)
At1g10640	Polygalacturonase, Putative / Pectinase, Putative	-5.53		1.56 ; 12; CMV-Y	Ishihara et al. (2004)
At5g40670	Pq-Loop Repeat Family Protein / Transmembrane Family Protein	-3.09		1.69 ; 48; CMV-Y	Ishihara et al. (2004)
At4g07390	Pq-Loop Repeat Family Protein / Transmembrane Family Protein	-2.32		2.7 ; 12; CMV-Y	Ishihara et al. (2004)
At4g12480	Protease Inhibitor/Seed Storage/Lipid Transfer Protein (Ltp) Family Protein	-6.69		1.45 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g11890	Protein Kinase Family Protein	-2.73		0.54 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g28400	Protein Phosphatase 2C, Putative / Pp2C, Putative	-1.87		4.58 ; 48; CMV-Y	Ishihara et al. (2004)
At2g16830	Pseudogene, Hypothetical Protein	-2.59		1.48 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At1g57990	Purine Permease-Related	-5.96		1.8 ; 4; TMV	Golem and Culver (2003)
At1g23440	Pyrrrolidone-Carboxylate Peptidase Family Protein	-1.94		1.2 ; 48; CMV-Y	Ishihara et al. (2004)
At3g44860	S-Adenosyl-L-Methionine:Carboxyl Methyltransferase Family Protein	-1.72		0.56 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g45890	Senescence-Specific Sag12 Protein (Sag12) / Cysteine Proteinase, Putative	-1.95		0.6 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g21390	S-Locus Lectin Protein Kinase Family Protein	-2.02		0.67 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g49480	Sodium-Inducible Calcium-Binding Protein (Acp1)	-5.44		0.62 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At4g34190	Stress Enhanced Protein 1 (Sep1)	-1.56		1.64 ; 6; CMV-Y	Ishihara et al. (2004)
At3g16050	Stress-Responsive Protein, Putative	-1.68		3.0–4.4 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At3g27380	Succinate Dehydrogenase, Iron-Sulphur Subunit, Mitochondrial (Sdh2-1)	-2.10		1.45 ; 48; CMV-Y	Ishihara et al. (2004)
At4g32150	Synaptobrevin Family Protein	-1.52		1.42 ; 12; CMV-Y	Ishihara et al. (2004)
At3g52400	Syntaxin, Putative (Syp122)	-2.37		2.59 ; 12; CMV-Y	Ishihara et al. (2004)
At1g19050	Two-Component Responsive Regulator / Response Regulator 7 (Arr7)	-2.32		3.5–7.5 ; 1; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)
At1g22400	Udp-Glucuronosyl/Udp-Glucosyl Transferase Family Protein	-2.24		1.75 ; 48; CMV-Y	Ishihara et al. (2004)
At3g17610	Unknown Protein	-4.67		1.32 ; 24; CMV-Y	Ishihara et al. (2004)
At1g78410	Vq Motif-Containing Protein	-4.02		1.72 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)

At5g57530	Xyloglucan:Xyloglucosyl Transferase, Putative	-1.56	1.7 ; 14; TMV	Golem and Culver (2003)
At4g28270	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	-1.91	1.54 ; 3, 5 and 18; CMV-Y	Marathe et al. (2004)
At2g14560	Expressed protein	-5.9	2.24; 10; ORMV / 1.76; 10; TuMV	Yang et al. (2007)
At2g42360	Zinc finger; C3HC4-type RING finger family protein	-2.7	2.4; 10; ORMV / 2.05; 10; TuMV	Yang et al. (2007)
At4g23150	Protein kinase family Protein	-2.9	3.05; 10; ORMV / 2.48; 10; TuMV	Yang et al. (2007)
At3g48360	Speckle-Type Poz Protein-Related	-4.2	1.49 ;3, 5 and 18; CMV-Y	Marathe et al. (2004)
At5g58700	Phospholipase C	-5.3	0.74; ;3, 5 and 18; CMV-Y	Marathe et al. (2004)

Group D. Genes repressed by infections of PPV and other positive sense RNA viruses

At1g67050	Expressed Protein	-1.84	-2.48 ; 24; CMV-Y	Ishihara et al. (2004)
At5g02160	Expressed Protein	-3.67	-1.9 14; TMV	Golem and Culver (2003)
At5g38980	Expressed Protein	-1.91	-2.1 14; TMV	Golem and Culver (2003)
At5g17650	Glycine/Proline-Rich Protein	-1.64	-2.65 ; 12; CMV-Y	Ishihara et al. (2004)
At4g25490	DRE-binding protein; DREB1B	-3.9	-3.9 ; 10; ORMV / -1.09; 10; TuMV	Yang et al. (2007)
At5g65730	Xyloglucan endotransglycosylase	-2.6	-1.8; 10; ORMV / -1.15 ; 10; TuMV	Yang et al. (2007)
At3g52590	Ubiquitin extension protein 1; UBQ1	-3.0	-1.71; 10; ORMV / -1.04 ; 10; TuMV	Yang et al. (2007)

Group E. Genes induced during PPV infection but either induced or suppressed by infections of other positive sense RNA viruses

At4g39950	Cytochrome P450 79B2, Putative (Cyp79B2)	2.69	1 ; 48; CMV-Y 1.9-3.9, 4 ; 5.1-8.1 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV 1.77;10; ORMV /1.39; 10; TuMV	Ishihara et al. (2004) Whitham et al. (2003) Yang et al. (2007)
At5g19120	Expressed Protein	2.65	2.1 ; 14; TMV -1.61 ; 6; CMV-Y	Golem and Culver (2003) Ishihara et al. (2004)
At1g19180	Expressed Protein	1.89	3.51 ; 24; CMV-Y 0.74 ; 3, 5 and 18; CMV-Y	Ishihara et al. (2004) Marathe et al. (2004)
At1g13090	Cytochrome P450 71B28, Putative (Cyp71B28)	2.59	1.4 ; 12; CMV-Y 7.8-38.9 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV -1.19; 10; ORMV / -1.13; 10; ORMV	Ishihara et al. (2004) Whitham et al. (2003) Yang et al. (2007)
At4g34390	Extra-Large Guanine Nucleotide Binding Protein, Putative / G-Protein, Putative	2.79	2.76 ; 48; CMV-Y 3.0 - 15.3 ; 5; TVCV, ORMV, PVX, CMV, TuMV 1.41;10; ORMV /1.17; 10; TuMV	Ishihara et al. (2004) Whitham et al. (2003) Yang et al. (2007)
At5g02490	Heat Shock Cognate 70 Kda Protein 2 (Hsc70-2) (Hsp70-2)	1.81	1.56 ; 12; CMV-Y 8.9-88.4, 4 ; 5.3-98.3 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Ishihara et al. (2004) Whitham et al. (2003)
At3g12580	Heat Shock Protein 70, Putative / Hsp70, Putative	5.24	2.7-11.7, 2 ; 1.9-5.6 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV 0.55 ; 3, 5 and 18; CMV-Y 4.42;10; ORMV /3.19; 10; TuMV	Whitham et al. (2003) Marathe et al. (2004) Yang et al. (2007)
At4g16660	Heat Shock Protein 70, Putative / Hsp70, Putative	3.08	4.27 ; 48; CMV-Y 4.7-24.3 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV 2.2;10; ORMV /1.34; 10; TuMV	Ishihara et al. (2004) Whitham et al. (2003) Yang et al. (2007)
At5g52640	Heat Shock Protein 81-1 (Hsp81-1) / Heat Shock Protein 83 (Hsp83)	6.36	2.4-6.2 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV 0.66 ; 3, 5 and 18; CMV-Y	Whitham et al. (2003) Marathe et al. (2004)
At1g80440	Kelch Repeat-Containing F-Box Family Protein	2.16	1.7 ; 4 ; TMV 1.38 ; 3, 5 and 18; CMV-Y	Golem and Culver (2003) Marathe et al. (2004)
At1g62510	Lipid Transfer Protein (Ltp) Family Protein	2.76	-2.02; 10; ORMV 1.41; 10; TuMV	Yang et al (2007)
At1g62570	Flavin-Containing Monooxygenase Family Protein / Fmo Family Protein	3.57	-1.20; 10; ORMV 1.12; 10; TuMV	Yang et al (2007)
At5g02500	Heat Shock Cognate 70 Kda Protein 1 (Hsc70-1) (Hsp70-1)	4.56	-1.08; 10; ORMV 1.01; 10; TuMV	Yang et al (2007)
At5g50920	Atp-Dependent Clp Protease Atp-Binding Subunit / Clpc	4.21	-1.03; 10; ORMV 1.01; 10; TuMV	Yang et al (2007)
At1g78900	Vacuolar Atp Synthase Catalytic Subunit A / V-Atpase A Subunit	4.07	1.01; 10; ORMV	Yang et al (2007)

AT5G51070 Atp-Dependent Clp Protease Atp-Binding Subunit (Clpd), (Erd1)	2.91	-1.17; 10; TuMV 4.54 ; 48 ; CMV-Y 1.05; 10; ORMV	Ishihara et al. (2004) Yang et al (2007)
At5g53950 No Apical Meristem (Nam) Family Protein	7.92	1.05; 10; TuMV 1.09; 10; ORMV -1.15; 10; TuMV	Yang et al (2007)
At1g64780 Ammonium Transporter 1, Member 2 (Amt1.2)	2.85	8.95; 10; ORMV -1.60; 10; TuMV	Yang et al (2007)
At4g19390 Expressed Protein	3.15	2.9–5.24; CMV-Y -1.03; 10; ORMV /-1.28; 10; ORMV	Ishihara et al. (2004) Yang et al. (2007)
At3g46780 Expressed Protein	5.80	1.61 ; 12; CMV-Y -1.34; 10; ORMV / -1.29; 10; ORMV	Ishihara et al. (2004) Yang et al. (2007)
At1g24280 Glucose-6-Phosphate 1-Dehydrogenase, Putative / G6Pd, Putative	2.52	5.7–11.5; 5 ; TVCV, ORMV, PVX, CMV, TuMV -1.49; 10; ORMV / -1.97; 10; ORMV	Whitham et al. (2003) Yang et al. (2007)
At4g38770 Proline-Rich Family Protein (Prp4)	3.60	1.37 ; 6; CMV-Y -1.83; 10; ORMV /-1.22; 10; ORMV	Ishihara et al. (2004) Yang et al. (2007)
At4g24190 Shepherd Protein (Shd) / Clavata Formation Protein, Putative	5.51	3.49 ; 48; CMV-Y 1.14; 10; ORMV / 1.12; 10; TuMV	Ishihara et al. (2004) Yang et al. (2007)
At3g09440 Heat Shock Cognate 70 Kda Protein 3 (Hsc70-3) (Hsp70-3)	3.18	0.49 ; 3, 5 and 18; CMV-Y 1.52;10; ORMV /1.49; 10; TuMV	Marathe et al. (2004) Yang et al. (2007)
At1g17020 Oxidoreductase, 2Og-Fe(Ii) Oxygenase Family Protein	12.32	3.1–16.6 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV 2.49;10; ORMV /2.27; 10; TuMV	Whitham et al. (2003) Yang et al. (2007)

Group F. Genes repressed during PPV infection but induced during infections of more than one positive sense RNA virus

At2g32680 Disease Resistance Family Protein	-2.56	2.95 ; 48; CMV-Y 23-177, 2 ; 39.8-172.4, 4 ; 13.5–80.3 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Ishihara et al. (2004) Whitham et al. (2003) Yang et al. (2007)
At5g61600 Ethylene-Responsive Element-Binding Family Protein	-2.20	1.5 ; 4; TMV 1.59 ; 3, 5 and 18; CMV-Y	Golem and Culver (2003) Marathe et al. (2004)
At3g57260 Glycosyl Hydrolase Family 17 Protein	-3.65	10.16 ; 48; CMV-Y 3.3- 49.5,2 ; 68.6-510.3, 4 ; 13.5–83.2 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Ishihara et al. (2004) Whitham et al. (2003) Yang et al. (2007)
At5g20230 Plastocyanin-Like Domain-Containing Protein	-2.62	1.72; 10; ORMV / 1.52; 10; TuMV 1.25 ; 48; CMV-Y 2.6–5.9 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Ishihara et al. (2004) Whitham et al. (2003) Yang et al. (2007)
At4g23140 Receptor-Like Protein Kinase 5 (Rlk5)	-4.87	1.3; 10; ORMV / 1.28; 10; TuMV 0.65 ; 3, 5 and 18; CMV-Y 6.16 ; 48; CMV-Y	Marathe et al. (2004) Ishihara et al. (2004) Yang et al. (2007)
AT2G15390 Xyloglucan Fucosyltransferase, Putative (Fut4)	-2.75	-1.51; 10; ORMV / -1.02 ; 10; TuMV 5.7–23.1 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003) Yang et al. (2007)
AT1G23710 Expressed Protein	-4.40	-1.3; 10; ORMV / -1.02 ; 10; TuMV 2.1–5.1 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003) Yang et al. (2007)
AT2G30590 Wrky Family Transcription Factor	-2.76	-1.17; 10; ORMV / -1.15 ; 10; TuMV 2.7–5.6 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003) Yang et al. (2007)
AT2G41110 Calmodulin-2/3/5 (Cam2) (Cal1)	-4.60	-1.08; 10; ORMV / -1.10 ; 10; TuMV 2.4–3.8; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003) Yang et al. (2007)
At4g10040 Cytochrome C, Putative	-3.27	2.5–4.0 ; 4; TVCV, ORMV, PVX, CMV, TuMV 1.2; 10; ORMV / 1.1; 10; TuMV	Whitham et al. (2003) Yang et al. (2007)
At5g59820 Zinc Finger (C2H2 Type) Family Protein (Zat12)	-3.27	4.0–11.5 ; 5; TVCV, ORMV, PVX, CMV, TuMV 1.21; 10; ORMV / 1.17; 10; TuMV	Whitham et al. (2003) Yang et al. (2007)
At1g45145 Thioredoxin H-Type 5 (Trx-H-5) (Toul)	-11.53	2.7–3.4 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV 1.32; 10; ORMV / / 1.18; 10; TuMV	Whitham et al. (2003) Yang et al. (2007)
At3g54420 Class IV Chitinase	-4.50	3.6-8.4; 4 ; 2.2–5.2 ; 5 ; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003)

At1g75040	Pathogenesis-Related Protein 5 (Pr-5)	-7.74		1.58; 10; ORMV / / 1.33; 10; TuMV 5.4-76.5, 2 ; 12.8-156.4, 4 ; 15.4-117.5, 5 ; TVCV, ORMV, PVX, CMV, TuMV	Yang et al. (2007) Whitham et al. (2003)
At1g65500	Expressed Protein	-4.64		2.15; 10; ORMV / 1.94; 10; TuMV 2.1-7.0 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Yang et al. (2007) Whitham et al. (2003)
At4g39670	Expressed Protein	-5.55		2.74; 10; ORMV / 1.69; 10; TuMV 3.7-29.6 ; 2; TVCV, ORMV, PVX, CMV, TuMV	Yang et al. (2007) Whitham et al. (2003)
At2g29460	Glutathione S-Transferase, Putative	-3.56		3.01; 10; ORMV / / 2.40; 10; TuMV 7.0-23.3 ; 5; TVCV, ORMV, PVX, CMV, TuMV	Yang et al. (2007) Whitham et al. (2003)
At2g26150	Heat Shock Transcription Factor Family Protein	-5.00	3.16	3.19; 10; ORMV / 2.01; 10; TuMV 0.54 ; 3, 5 and 18; CMV-Y	Yang et al. (2007) Marathe et al. (2004)
At2g33240	Myosin, putative	-13.1		3.43; 10; ORMV / 2.63; 10; TuMV -1.16; 10; ORMV	Yang et al. (2007) Yang et al. (2007)
At4g27280	Calcium-binding EF hand family protein	-4.8		1.03; 10; TuMV -1.16; 10; ORMV	Yang et al. (2007)
At2g23090	Expressed protein	-4.3		1.04; 10; TuMV -1.13; 10; ORMV	Yang et al. (2007)
At2g22860	Phytosulfokines 2 (Psk2)	-4.90		1.02; 10; TuMV 7.1-28.3 ; 4; TVCV, ORMV, PVX, CMV, TuMV	Whitham et al. (2003) Yang et al. (2007)
				1.24; 10; ORMV -1.09; 10; TuMV	Yang et al. (2007)

FC: Fold change.

^aFold change in PPV-infected *Arabidopsis* leaves.

^bFold change in *Arabidopsis* protoplasts transfected with a PPV infectious clone.