

Supplemental Table 3. Expression levels of differentially regulated genes in PPV-infected *Arabidopsis* protoplasts

Probe IDs ^a	AGI ^b locus	Annotation	<i>q</i> -value ^c	<i>p</i> -value ^d	Fold Change ^e		
					3 hpt ^f	6 hpt	12 hpt
I. Genes induced in PPV-infected <i>Arabidopsis</i> protoplasts at one time point and not repressed at other time points							
A. Defence and virulence ^g							
256487_at	At1g31540	Disease resistance protein, TIR-NBS-LRR class, putative	0.0475	0.0314	2.97	1.37	-1.96
265682_at	At2g24390	Avirulence induced gene (AIG) protein, related	0.0424	0.0072	-1.92	9.78	1.19
254582_at	At4g19470	Disease resistance protein, related	0.0475	0.0369	-1.82	5.13	-2.44
253627_at	At4g30650	Hydrophobic protein, putative	0.0401	0.0043	1.35	5.25	-1.59
248989_at	At5g45200	Disease resistance protein, TIR-NBS-LRRj	0.0431	0.0085	-1.49	6.39	2.12
A1. Protein folding/heat shock/chaperone activity							
256999_at	At3g14200	DNAJ heat shock protein	0.0482	0.0413	1.45	10.29	-2.08
A2. Cell wall associated transcripts							
A2.1. Re-assembly of cell wall associated genes							
260178_at	At1g70720	invertase/pectin methylesterase inhibitor protein	0.0434	0.0062	2.33	-1.72	4.71
266877_at	At2g44570	Glycosyl hydrolase family 9 protein	0.0397	0.0037	5.21	1.79	-1.52
251250_at	At3g62180	Pectin methylesterase, putative	0.0448	0.0200	-2.38	2.64	1.92
253366_at	At4g33180	Hydrolase family protein	0.0484	0.0417	1.31	4.09	-1.09
A2.2. Matrix polymers							
245465_at	At4g16590	Glucosyltransferase, related	0.0445	0.0181	3.15	2.23	-1.37
B. Cellular communication/Signal transduction mechanism/transmembrane signal transduction							
260699_at	At1g32320	MAP kinase, putative	0.0475	0.0345	-2.22	3.59	-1.05
264719_at	At1g70110	Lectin protein kinase family protein	0.0466	0.0251	-1.30	4.62	-1.75
257825_at	At3g26700	Protein kinase, putative	0.0424	0.0072	-1.45	-1.19	3.19
249440_at	At5g40030	Protein kinase PK1- like	0.0441	0.0104	-1.37	6.90	-2.22
247531_at	At5g61550	Protein kinase 1, PK1	0.0445	0.0160	1.55	-2.00	3.35
C. Cell Cycle/ DNA processing/chromatin regulation and cytoskeleton reorganization							
256587_at	At3g28780	Histone H4 protein -like	0.0466	0.0257	-1.35	-1.61	2.52
264991_s_at	At3g43400	Phagocytosis and cell motility protein ELMO1, related	0.0441	0.0132	-1.09	1.00	5.99
249572_at	At5g37630	Chromosome condensation family protein	0.0466	0.0261	-1.49	2.24	3.92
247192_at	At5g65360	Histone H3	0.0434	0.0093	-1.20	2.55	1.07
D. Development/storage proteins							
262752_at	At1g16330	Cyclin family protein	0.0441	0.0119	-1.59	4.33	-1.41
262393_at	At1g49490	Extensin family protein	0.0494	0.0442	12.55	1.16	1.01
267198_at	At2g30810	Gibberellin-regulated family protein	0.0467	0.0264	-1.22	1.10	26.53
251119_at	At3g63510	Nitrogen regulation family protein	0.0499	0.0499	-1.19	-2.27	4.16
253012_at	At4g37900	Glycine-rich protein	0.0445	0.0158	1.01	-2.08	3.61
249702_at	At5g35570	Auxin-independent growth promoter protein, Axi 1	0.0489	0.0445	-1.52	-1.67	2.72
248676_at	At5g48850	male sterility MS5 family protein	0.0475	0.0258	2.59	2.26	-1.45
248636_at	At5g49080	Extensin-like family protein	0.0390	0.0025	-1.09	4.64	-2.08
247016_at	At5g66970	Signal recognition particle 54 K protein	0.0448	0.0194	1.93	8.47	-1.11
D1. Chloroplast							
262774_at	At1g13230	Chloroplast nucleoid DNA binding protein, putative	0.0448	0.0195	1.53	-2.27	5.58
E. Metabolism/energy/membrane associated proteins							
E2. Primary /secondary metabolism							
260475_at	At1g11080	Serine carboxypeptidase S10 family protein	0.0398	0.0040	-1.22	-1.30	6.75
261529_at	At1g14430	glyoxal oxidase-related	0.0434	0.0089	-1.52	10.14	1.50
261029_at	At1g17330	Metal-dependent phosphohydrolase protein	0.0417	0.0068	1.19	3.60	-1.52
245650_at	At1g24735	Caffeoyl-CoA 3-O-methyltransferase, putative	0.0475	0.0321	-1.18	2.65	-1.54
262465_at	At1g50270	Pentatricopeptide (PPR) repeat-containing protein	0.0494	0.0468	-1.37	6.27	2.04

256211_at	At1g50960	Gibberellin 20-oxidase-related	0.0494	0.0469	-1.28	8.86	-1.43
262184_at	At1g77910	NADH Dehydrogenase	0.0477	0.0489	10.21	-2.44	1.19
266308_at	At2g27010	Cytochrome P450 family protein	0.0475	0.0378	-1.16	12.86	-1.18
267416_at	At2g34980	Phosphatidylinositol-glycan synthase, putative	0.0441	0.0124	-1.14	5.72	-1.75
258973_at	At3g01900	Cytochrome P450 family protein	0.0475	0.0337	1.34	-2.44	2.62
258962_at	At3g10570	Cytochrome P450, putative	0.0401	0.0044	-1.20	-1.01	6.66
258174_at	At3g21470	Pentatricopeptide (PPR) repeat-containing protein	0.0494	0.0428	-1.52	-1.75	3.58
251881_at	At3g54250	Mevalonate diphosphate decarboxylase, putative	0.0476	0.0383	1.04	-1.12	3.80
246009_at	At5g08335	Isoprenylcysteine carboxyl methyltransferase family protein	0.0475	0.0380	2.80	1.59	-1.59
249773_at	At5g24140	Squalene monooxygenase 2, SM 2	0.0434	0.0096	-1.43	9.58	1.80
248104_at	At5g55250	S-adenosyl-L-methionine, putative	0.0465	0.0243	-1.43	3.57	-1.27
247005_at	At5g67520	Adenylylsulfate kinase, putative	0.0474	0.0300	1.93	2.67	-1.45
F. Proteins with binding function or cofactor requirement							
260921_at	At1g21540	AMP-binding protein, putative	0.0460	0.0228	-2.22	1.68	5.50
262303_at	At1g70930	Homeobox protein, putative	0.0490	0.0450	1.56	4.29	-1.10
267589_at	At2g42050	Peptides precursor	0.0441	0.0120	3.11	1.82	-2.00
259201_at	At3g09080	Transducin family protein	0.0474	0.0345	5.82	-1.92	1.31
251964_at	At3g53370	DNA-binding family protein, S1FA	0.0390	0.0026	3.30	-1.39	-1.22
255321_at	At4g04260	BAH domain containing protein	0.0475	0.0350	3.62	2.34	-1.11
248692_s_at	At4g15070	DC1 domain containing protein	0.0466	0.0258	-2.38	-1.04	9.94
H. Protein fate							
267056_at	At2g32470	F-box family protein, related	0.0407	0.0056	1.06	8.98	1.34
258741_at	At3g05790	Lon protease, putative	0.0485	0.0426	3.67	1.03	-2.17
252500_at	At3g46860	Serine protease inhibitor protein	0.0495	0.0483	4.23	-1.32	-1.23
250162_at	At5g15250	FtsH protease, putative	0.0479	0.0398	1.56	10.47	-1.75
H1. Ubiquitin like conjugating enzyme activity							
248662_at	At5g48690	similar to ubiquitin-associated protein	0.0474	0.0341	5.95	-1.23	-1.11
I. Transcription/splicing/RNA processing							
259595_at	At1g28050	Zinc finger B-box type family protein	0.0492	0.0455	-1.02	-2.08	3.83
259814_at	At1g49900	Zinc finger family protein, C2H2 type	0.0445	0.0180	-1.09	5.58	-2.44
265124_at	At1g55430	Zinc finger protein-like CHP type, putative	0.0448	0.0200	-1.82	6.99	-1.37
257414_at	At1g62110	Mitochondrial transcription factor mTERF family protein	0.0475	0.0380	-2.33	4.56	-1.56
264945_at	At1g77070	MADS-box protein MADS2, putative	0.0493	0.0457	1.02	3.25	-1.19
264294_at	At1g78750	Heat shock transcription factor-like	0.0475	0.0355	1.10	6.41	-2.04
263723_at	At2g13500	Zinc finger protein	0.0494	0.0427	2.08	4.66	-2.44
263797_at	At2g24570	WRKY family transcription factor	0.0390	0.0029	1.19	3.62	1.08
266841_at	At2g26150	Heat shock transcription factor, putative	0.0475	0.0346	1.11	-2.00	3.16
267177_at	At2g37580	Zinc RING finger family protein, C3HC4-type	0.0474	0.0293	13.22	2.20	-1.09
256918_s_at	At3g18960	Transcriptional factor B3 family protein	0.0441	0.0129	1.44	-1.61	3.51
252128_at	At3g50870	Zinc finger family protein, GATA type	0.0434	0.0094	3.00	2.04	-1.54
257488_s_at	At4g00070	Zinc finger protein, related	0.0475	0.0372	1.26	5.99	-2.38
245179_at	At5g12400	PHD finger transcription factor, putative	0.0465	0.0238	-1.14	-1.69	3.60
246531_at	At5g15800	MADS box protein, AGL2	0.0448	0.0193	-1.39	6.00	-1.82
250051_at	At5g17800	MYB family transcription factor, MYB56	0.0424	0.0071	-1.04	-2.04	2.97
248596_at	At5g49330	MYB family transcription factor	0.0401	0.0043	-1.43	-1.92	6.03
II. Helicase activity							
250138_at	At5g14610	DEAD box RNA helicase, putative	0.0492	0.0453	-1.15	-1.75	3.10
J. Transporters							
262855_at	At1g20860	Phosphate transporter family protein	0.0409	0.0060	1.35	4.79	-1.25
261455_at	At1g21070	Transporter-related	0.0449	0.0203	-2.00	-2.00	4.04
257811_at	At3g25280	Nitrate transporter, putative	0.0494	0.0479	-1.33	5.21	1.35
248275_at	At5g53520	Oligopeptide transporter OPT family protein	0.0488	0.0444	3.63	1.36	-1.11
K. Transposable elements, viral and plasmid proteins							
254366_s_at	At4g22040	Retrovirus-related polyprotein	0.0465	0.0241	2.22	4.03	-1.61

L. Unknown proteins

261414_at	At1g07795	Expressed protein	0.0475	0.0318	-1.92	1.24	3.24
259489_at	At1g15790	Expressed protein	0.0453	0.0201	-1.61	2.89	-1.39
262718_at	At1g43570	Expressed protein	0.0390	0.0023	4.09	-1.37	-2.22
262072_at	At1g59590	Expressed protein	0.0445	0.0146	3.43	1.33	-1.22
264932_at	At1g61240	Expressed protein	0.0475	0.0268	-1.54	-1.41	4.04
262369_at	At1g73010	Expressed protein	0.0390	0.0013	2.60	1.50	1.35
265524_at	At2g06180	Unknown protein	0.0409	0.0178	-2.38	5.94	-1.27
263815_at	At2g10020	Expressed protein	0.0457	0.0208	-1.14	-1.79	2.93
265834_at	At2g14410	Unknown protein	0.0445	0.0145	1.06	4.46	-2.00
265491_s_at	At2g15650	Unknown protein	0.0407	0.0052	-2.27	-1.67	4.05
263742_at	At2g20625	Expressed protein	0.0390	0.0027	2.19	9.64	-1.02
266128_at	At2g45000	Expressed protein	0.0401	0.0042	6.49	-1.28	1.02
259195_at	At3g01730	Expressed protein	0.0446	0.0185	-2.22	1.62	9.32
258703_at	At3g09750	Expressed protein	0.0471	0.0339	4.14	-1.30	-1.30
257901_at	At3g28440	Unknown protein	0.0441	0.0092	-1.39	1.11	4.25
252778_at	At3g42980	Hypothetical protein	0.0474	0.0300	-1.69	-2.44	5.10
252661_at	At3g44450	Expressed protein	0.0390	0.0022	1.25	2.87	-1.22
255399_at	At4g03750	Hypothetical protein	0.0388	0.0008	8.43	-1.79	-2.27
254484_at	At4g20750	Unknown protein	0.0475	0.0355	-1.72	1.04	3.64
253827_at	At4g28085	Expressed protein	0.0441	0.0122	2.77	1.22	-1.05
253689_at	At4g29770	Expressed protein	0.0496	0.0426	4.67	-1.82	-2.44
253289_at	At4g34320	Expressed protein	0.0405	0.0048	1.76	6.29	-1.82
248941_s_at	At5g45460	Expressed protein	0.0457	0.0219	-1.72	1.08	4.22
248430_at	At5g51800	Expressed protein	0.0477	0.0491	-1.82	6.76	-1.72
247599_at	At5g60880	Expressed protein	0.0475	0.0364	5.93	-1.41	-1.96

II. Genes repressed in PPV-infected *Arabidopsis* protoplasts at one time point and not induced at other time points

A. Defence and virulence

267041_at	At2g34315	Disease Resistance Protein-Related	0.0445	0.0159	1.27	-1.32	-4.17
253353_at	At4g33730	Pathogenesis-Related Protein, Putative	0.0475	0.0376	1.45	-2.33	-7.69
250037_at	At5g18350	Disease Resistance Protein (TIR-NBS-LRR class), Putative	0.0469	0.0485	-1.15	-16.72	-2.91
246004_at	At5g20630	Germin-Like Protein; Ger3	0.0488	0.0444	-2.38	-2.94	-1.39

A1. Protein folding/heat shock/chaperone activity

259631_at	At1g56410	Heat Shock Cognate 70 Kda Protein, Putative	0.0445	0.0155	1.20	-5.88	1.69
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A2. Cell wall associated transcripts

A2.1. Re-assembly of cell wall associated genes

256415_at	At3g11210	Gdsl-Motif Lipase/Hydrolase Family Protein	0.0447	0.0185	1.03	1.05	-2.63
257896_at	At3g16920	Glycoside Hydrolase Family 19 Protein	0.0445	0.0168	1.20	2.06	-3.78
255517_at	At4g02290	Glycosyl Hydrolase Family 9 Protein	0.0447	0.0183	-1.04	-11.11	-2.38
253226_at	At4g35010	Glycosyl Hydrolase Family 35 Protein	0.0465	0.0237	-3.12	-2.75	1.10
247477_at	At5g62340	Invertase/Pectin Methyltransferase Inhibitor Family Protein	0.0445	0.0164	-1.28	-3.33	1.77

A2.2. Matrix polymers

261923_at	At1g22380	Udp-Glucuronosyl/Udp-Glucosyl Transferase Family Protein	0.0493	0.0463	1.51	-6.55	-3.14
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A2.3. Structural proteins

262002_at	At1g64450	Proline-Rich Family Protein	0.0390	0.0030	-1.28	-8.33	1.25
253050_at	At4g37450	Arabinogalactan-Protein (Agp18)	0.0454	0.0215	1.49	1.40	-6.12

B. Cellular communication/Signal transduction mechanism/transmembrane signal transduction

261308_at	At1g48480	Leucine-Rich Repeat Transmembrane Protein Kinase, Putative	0.0448	0.0200	-2.50	-2.70	1.51
262141_s_at	At1g52460	Phospholipase	0.0475	0.0373	1.88	1.96	-12.64
262004_at	At1g64480	Calcineurin B-Like Protein 8 (Cbl8)	0.0474	0.0310	-4.87	1.74	-1.60
258342_at	At3g22800	Leucine-Rich Repeat Family Protein / Extensin Family Protein	0.0441	0.0106	2.27	-3.03	-2.00
257106_at	At3g29060	Exs Family Protein / Erd1/Xpr1/Syg1 Family Protein	0.0485	0.0426	-8.38	-1.68	-1.23
248420_at	At5g51560	Leucine-Rich Repeat Transmembrane Protein Kinase, Putative	0.0466	0.0254	1.86	1.00	-2.70

C. Cell Cycle/ DNA processing/chromatin regulation and cytoskeleton reorganization

253142_at	At4g35520	Dna Mismatch Repair Family Protein	0.0475	0.0370	-1.38	1.00	-3.32
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245942_at	At5g19490	Repressor Protein-Related	0.0493	0.0464	2.26	-1.01	-4.80
246776_at	At5g27550	Kinesin Motor Protein-Related	0.0458	0.0225	-1.23	-8.33	-1.22

D. Development/storage proteins

263683_at	At1g26870	No Apical Meristem (Nam) Family Protein	0.0475	0.0350	1.44	-3.57	1.92
261703_at	At1g32770	No Apical Meristem (Nam) Family Protein	0.0476	0.0387	-3.23	-1.11	1.97
262156_at	At1g52680	Late Embryogenesis Abundant Protein-Related	0.0434	0.0097	1.17	1.40	-6.81
267493_at	At2g30400	Ovate Family Protein	0.0479	0.0399	1.08	-1.56	-9.09
257718_at	At3g18400	No Apical Meristem (Nam) Family Protein	0.0474	0.0306	-5.00	-2.86	-1.04
251694_s_at	At3g56560	No Apical Meristem (Nam) Family Protein	0.0477	0.0391	-4.20	1.50	1.76
255049_at	At4g09610	Gibberellin-Regulated Protein 2 / Gibberellin-Responsive Protein 2	0.0492	0.0453	-2.55	-4.79	2.23
254316_at	At4g22500	Pseudogene, Glycine-Rich Protein Family	0.0475	0.0336	-1.30	-3.70	1.33
250682_x_at	At5g06630	Extensin-Like Family Protein	0.0474	0.0308	2.11	-8.25	-5.11
248658_at	At5g48600	Structural Maintenance Of Chromosomes (Smc) Family Protein	0.0465	0.0238	1.13	-3.33	-1.30

E. Metabolism/energy/membrane associated proteins

E1. Carbohydrate/soluble sugar/starch/aminoacid metabolism

249729_at	At5g24410	Glucosamine/Galactosamine-6-Phosphate Isomerase-Related	0.0445	0.0153	-5.24	2.42	-5.96
247159_at	At5g65800	1-Aminocyclopropane-1-Carboxylate Synthase, Putative	0.0445	0.0142	-2.91	2.38	-4.04

E2. Primary /secondary metabolism

264251_at	At1g09190	Pentatricopeptide (Ppr) Repeat-Containing Protein	0.0475	0.0380	-2.27	-4.48	-1.22
260032_at	At1g68750	Phosphoenolpyruvate Carboxylase Family Protein	0.0458	0.0225	-2.05	1.28	-3.17
263061_at	At2g18190	Aaa-Type Atpase Family Protein	0.0494	0.0478	-1.28	-2.84	-1.63
265329_at	At2g18450	Succinate Dehydrogenase	0.0445	0.0178	1.61	-6.63	1.15
267434_at	At2g26260	3-Beta Hydroxysteroid Dehydrogenase/Isomerase Family Protein	0.0465	0.0248	-3.38	-4.96	1.45
266164_at	At2g28050	Pentatricopeptide (Ppr) Repeat-Containing Protein	0.0465	0.0237	-5.88	-1.18	1.11
266286_at	At2g29170	Dehydrogenase/Reductase (Sdr) Family Protein	0.0445	0.0180	1.57	-1.37	-4.00
266751_at	At2g47020	Peptide Chain Release Factor, Putative	0.0445	0.0158	1.11	-4.17	1.68
259206_at	At3g09040	Pentatricopeptide (Ppr) Repeat-Containing Protein	0.0388	0.0008	-1.10	1.79	-3.22
252780_at	At3g42960	Alcohol Dehydrogenase (Ata1)	0.0474	0.0301	-4.93	-1.62	-1.44
252245_at	At3g49710	Pentatricopeptide (Ppr) Repeat-Containing Protein	0.0431	0.0085	-1.20	-2.63	1.23
251394_at	At3g60900	Fasciclin-Like Arabinogalactan-Protein (Fla10)	0.0441	0.0105	-1.52	-7.87	2.29
254065_at	At4g25420	Gibberellin 20-Oxidase	0.0474	0.0296	1.50	-4.00	-1.61
253962_at	At4g26460	Similar To S-Adenosyl-L-Methionine Carboxyl Methyltransferase	0.0475	0.0351	1.25	-5.56	-1.33
253743_at	At4g28940	Nucleosidase-Related	0.0441	0.0118	1.36	-3.03	1.01
253149_at	At4g35650	Nad+ Isocitrate Dehydrogenase, Putative	0.0424	0.0072	2.22	-4.55	1.67
249687_at	At5g36150	Pentacyclic Triterpene Synthase, Putative	0.0481	0.0403	-1.23	2.00	-9.09
248729_at	At5g48010	Pentacyclic Triterpene Synthase, Putative	0.0475	0.0361	-6.27	1.22	1.68
248704_at	At5g48450	Multi-Copper Oxidase Type I Family Protein	0.0487	0.0433	-2.04	-1.03	-5.00
248536_at	At5g50140	Ankyrin Repeat Family Protein	0.0441	0.0112	-5.88	-1.72	1.41
247004_at	At5g67570	Pentatricopeptide (Ppr) Repeat-Containing Protein	0.0461	0.0229	-1.52	-5.00	1.18

F. Proteins with binding function or cofactor requirement

245726_at	At1g73360	Lipid-Binding Start Domain-Containing Protein	0.0482	0.0409	1.02	-2.94	-1.41
266712_at	At2g46750	Fad-Binding Domain-Containing Protein	0.0414	0.0065	2.36	-1.21	-4.66
257051_at	At3g15270	Squamosa Promoter-Binding Protein-Like 5; Spl5	0.0448	0.0200	1.71	1.98	-5.56
258241_at	At3g27650	Lob Domain Protein 25	0.0468	0.0266	1.38	2.11	-2.70
252367_at	At3g48360	Speckle-Type Poz Protein-Related	0.0485	0.0420	-4.17	-1.35	1.09
251956_at	At3g53460	RNA-Binding Protein; Cp 29	0.0493	0.0462	-1.56	-2.86	1.10
255149_at	At4g08150	Homeobox Protein Knotted-1 Like 1 (Knat1)	0.0447	0.0186	-9.21	1.73	-2.63
253853_at	At4g28130	Diacylglycerol Kinase Accessory Domain-Containing Protein	0.0495	0.0485	1.38	-3.41	1.21
252994_at	At4g38480	Transducin Family Protein / Wd-40 Repeat Family Protein	0.0445	0.0154	-7.24	-2.56	1.40

H. Protein fate

261241_at	At1g32950	Subtilase Family Protein	0.0397	0.0034	1.40	-4.17	2.25
264966_at	At1g60570	Kelch Repeat-Containing F-Box Family Protein	0.0434	0.0096	-2.50	1.09	1.96
262333_at	At1g64020	Serine Protease Inhibitor-Related	0.0475	0.0372	1.11	-4.76	-1.47
258670_at	At3g08810	Kelch Repeat-Containing F-Box Family Protein	0.0425	0.0080	-4.74	1.11	1.58
258407_at	At3g17620	F-Box Family Protein	0.0475	0.0335	1.72	-1.33	-3.23
251512_at	At3g59190	F-Box Family Protein	0.0475	0.0359	-1.12	2.31	-3.85
254875_at	At4g11590	F-Box Family Protein	0.0448	0.0191	2.43	-4.95	-10.60

248062_at	At5g55450	Protease Inhibitor	0.0445	0.0138	-1.24	1.00	-15.26
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I. Transcription/splicing/RNA processing

256023_at	At1g58330	Transcription Factor-Related	0.0488	0.0442	-4.12	1.13	-1.08
260263_at	At1g68480	Zinc Finger (C2H2 Type) Family Protein	0.0445	0.0175	1.58	-3.03	2.44
263281_at	At2g14160	RNA Recognition Motif (Rrm)-Containing Protein	0.0445	0.0174	-1.93	-14.45	-2.86
263092_at	At2g16210	Transcriptional Factor B3 Family Protein	0.0475	0.0319	1.31	-3.87	1.58
267091_at	At2g38185	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	0.0448	0.0197	1.56	-4.55	1.47
266886_at	At2g44745	Wrky Family Transcription Factor	0.0466	0.0249	2.49	-4.55	-1.09
257656_at	At3g13228	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	0.0474	0.0309	-1.51	2.08	-7.82
257740_at	At3g27330	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	0.0475	0.0372	-6.25	1.26	1.78
246274_at	At4g36620	Zinc Finger (Gata Type) Family Protein	0.0475	0.0372	-3.81	-5.85	2.10
246520_at	At5g15790	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	0.0475	0.0375	-4.00	1.74	1.27
249606_at	At5g37260	Myb Family Transcription Factor	0.0407	0.0055	-1.64	-2.86	-1.04
248859_at	At5g46660	CHP-Rich Zinc Finger Protein, Putative	0.0474	0.0308	-6.67	-1.41	-1.32
247035_at	At5g67110	Basic Helix-Loop-Helix (BHLH) Family Protein	0.0473	0.0282	-1.30	-4.00	-2.08

II. Helicase activity

246734_at	At5g27680	Dead/Deah Box Helicase, Putative	0.0475	0.0334	1.94	-4.76	1.37
252840_at	At5g32630	Putative Helicase	0.0445	0.0148	-10.00	1.06	-1.14

J. Transporters

260193_at	At1g67640	Lysine And Histidine Specific Transporter, Putative	0.0453	0.0208	-3.98	-6.83	-1.43
259846_at	At1g72140	Proton-Dependent Oligopeptide Transport (Pot) Family Protein	0.0493	0.0466	1.23	-4.35	2.33
265955_at	At2g37280	Abc Transporter Family Protein	0.0465	0.0241	-3.57	-1.11	1.34
255359_at	At4g03950	Glucose-6-Phosphate/Phosphate Translocator, Putative	0.0390	0.0017	-9.89	2.14	1.72

K. Transposable elements, viral and plasmid proteins

262031_x_at	At1g37160	Gypsy-Like Retrotransposon Family (Athila)	0.0475	0.0351	-2.38	-3.85	1.70
266213_s_at	At2g06870	Mutator-Like Transposase Family	0.0441	0.0109	-1.22	-2.87	1.55
265783_at	At2g07450	Gypsy-Like Retrotransposon Family (Athila)	0.0405	0.0048	-12.50	1.32	1.18
263508_s_at	At2g07685	Gypsy-Like Retrotransposon Family (Athila)	0.0482	0.0411	1.58	1.80	-7.14
263389_at	At2g11680	Gypsy-Like Retrotransposon Family	0.0466	0.0257	-5.00	1.21	2.00
266148_x_at	At2g12240	Cacta-Like Transposase Family (Ptta/En/Spm)	0.0475	0.0335	1.49	-5.88	-1.15
264104_at	At2g13750	Cacta-Like Transposase Family (Ptta/En/Spm)	0.0492	0.0454	1.40	-12.50	-2.27
256845_x_at	At3g31970	Gypsy-Like Retrotransposon Family	0.0476	0.0387	-1.15	-2.63	-1.41
255374_at	At4g03770	Gypsy-Like Retrotransposon Family (Athila)	0.0474	0.0288	-6.01	1.43	-3.52
255316_at	At4g04170	Cacta-Like Transposase Family (Ptta/En/Spm)	0.0390	0.0015	1.95	-1.47	-14.29
255188_at	At4g07340	Replication Protein-Related	0.0401	0.0043	2.34	-10.28	-1.28
255215_at	At4g07660	Gypsy-Like Retrotransposon Family (Athila)	0.0474	0.0311	1.35	-2.22	-9.09
255156_at	At4g07780	Gypsy-Like Retrotransposon Family (Athila)	0.0441	0.0106	1.61	2.42	-18.75
246667_at	At5g34840	Mutator-Like Transposase Family	0.0465	0.0242	-1.55	-7.45	1.06

L. Unknown proteins

262625_at	At1g06440	Expressed Protein	0.0465	0.0239	-1.32	-5.56	1.33
259566_at	At1g20520	Expressed Protein	0.0441	0.0116	-7.14	1.30	-2.50
261645_at	At1g27790	Hypothetical Protein	0.0494	0.0475	1.53	-14.30	1.09
260715_at	At1g48200	Expressed Protein	0.0445	0.0143	-3.85	1.53	1.57
263738_at	At1g60060	Expressed Protein	0.0441	0.0105	1.11	1.25	-5.56
260198_at	At1g67635	Expressed Protein	0.0496	0.0493	2.02	-2.78	-5.66
259870_at	At1g76780	Expressed Protein	0.0441	0.0106	-2.27	1.67	-16.67
267479_at	At2g02690	Expressed Protein	0.0401	0.0044	1.05	1.61	-6.24
266733_at	At2g03280	Expressed Protein	0.0390	0.0032	2.25	1.31	-2.70
265746_at	At2g06630	Hypothetical Protein	0.0445	0.0142	1.19	1.22	-40.97
265745_at	At2g06640	Unknown Protein	0.0493	0.0464	-3.56	1.30	-1.42
265421_s_at	At2g20616	Expressed Protein	0.0482	0.0413	-1.10	-5.56	1.92
266251_s_at	At2g27540	Expressed Protein	0.0460	0.0227	-14.29	1.31	1.04
267166_at	At2g37720	Expressed Protein	0.0441	0.0128	1.21	-4.76	1.56
263498_at	At2g42610	Expressed Protein	0.0447	0.0184	1.34	1.98	-3.70
266754_at	At2g46980	Expressed Protein	0.0425	0.0079	1.97	-3.03	2.18
256599_at	At3g14760	Expressed Protein	0.0441	0.0108	-1.04	-2.78	2.06
257111_x_at	At3g30450	Hypothetical Protein	0.0455	0.0216	-9.09	2.07	1.17

252784_at	At3g43040	Unknown Protein	0.0475	0.0333	2.02	-8.33	1.66
246341_x_at	At3g43150	Hypothetical Protein	0.0474	0.0292	-2.13	-3.45	1.74
252741_at	At3g43280	Expressed Protein	0.0473	0.0279	-4.35	2.15	1.46
252665_at	At3g44140	Expressed Protein	0.0449	0.0203	1.06	-3.13	1.09
252196_at	At3g50200	Expressed Protein	0.0494	0.0474	-3.68	-1.67	2.00
255531_at	At4g02160	Hypothetical Protein	0.0390	0.0024	-1.16	-10.00	1.81
255348_at	At4g03820	Expressed Protein	0.0474	0.0295	1.36	-3.70	1.58
255029_x_at	At4g09470	Expressed Protein	0.0465	0.0243	1.43	-1.60	-3.65
254908_at	At4g11200	Expressed Protein	0.0474	0.0298	-3.03	1.88	1.87
254825_at	At4g12630	Unknown Protein	0.0390	0.0030	1.95	1.64	-8.62
254769_at	At4g13330	Expressed Protein	0.0474	0.0294	1.76	-2.86	1.32
264461_s_at	At4g15050	Expressed Protein	0.0466	0.0261	2.49	1.38	-9.09
254311_at	At4g22440	Hypothetical Protein	0.0466	0.0256	2.00	2.22	-5.56
254240_at	At4g23496	Expressed Protein	0.0478	0.0394	1.58	-3.73	1.20
254138_at	At4g24950	Expressed Protein	0.0435	0.0101	-5.56	1.73	1.26
253518_at	At4g31400	Expressed Protein	0.0475	0.0353	-3.37	1.24	-1.64
251003_at	At5g02690	Expressed Protein	0.0465	0.0244	1.67	-2.56	-1.25
250945_at	At5g03400	Hypothetical Protein	0.0478	0.0394	1.99	1.66	-6.76
250300_at	At5g11890	Expressed Protein	0.0475	0.0336	-5.88	1.82	-1.52
246795_at	At5g27020	Hypothetical Protein	0.0475	0.0332	1.66	1.41	-6.61
246605_at	At5g35340	Unknown Protein	0.0465	0.0246	-1.61	2.34	-5.00
249531_at	At5g38770	Hypothetical Protein	0.0447	0.0185	1.28	-8.76	2.30
248904_at	At5g46295	Expressed Protein	0.0445	0.0169	1.53	1.94	-3.08
248282_at	At5g52900	Expressed Protein	0.0475	0.0371	1.05	1.26	-3.45
247883_at	At5g57790	Expressed Protein	0.0390	0.0032	1.82	1.88	-3.73

III. Genes induced and repressed in PPV-infected *Arabidopsis* protoplasts at different time points

A. Defence and virulence

261737_at	At1g47885	Disease Resistance Protein, Putative	0.0460	0.0228	2.81	-6.67	2.21
260514_at	At1g51480	Disease Resistance Protein, CC-NBS-LRR class, Putative	0.0482	0.0406	-1.02	5.48	-6.25
260052_at	At1g78220	14-3-3 Protein Gf14 Pi; Grf13	0.0414	0.0065	2.81	-6.67	1.41
266562_at	At2g23970	Defense-Related Protein, Putative	0.0495	0.0485	1.66	4.23	-3.45
260584_at	At2g43660	b-1,3-Glucanase, Putative	0.0434	0.0093	-1.07	-7.84	4.60
254905_at	At4g11170	Disease Resistance Protein, TIR-NBS-LRR, Putative	0.0498	0.0497	-1.06	2.65	-3.13
246096_at	At5g20330	b-1,3-Glucanase; Bg4	0.0407	0.0055	2.29	5.53	-6.25
249477_s_at	At5g38930	Germin-Like Protein, Putative	0.0475	0.0319	7.80	-1.85	-2.50

A2. Cell wall associated transcripts

A2.1. Re-assembly of cell wall associated genes

264898_at	At1g23205	Invertase/Pectin Methylesterase Inhibitor Family Protein	0.0441	0.0122	2.86	1.83	-2.86
257441_at	At2g04020	Gdsl-Motif Lipase/Hydrolase Family Protein	0.0441	0.0113	2.36	2.96	-5.39
260573_at	At2g47280	Pectinesterase Family Protein	0.0474	0.0303	-1.27	-11.11	4.37
258147_at	At3g18070	Glycosyl Hydrolase Family 1 Protein	0.0438	0.0127	3.06	1.25	-9.70
257629_at	At3g26140	Glycosyl Hydrolase Family 5 Protein / Cellulase Family Protein	0.0482	0.0414	1.09	-4.73	2.57
252756_s_at	At3g43550	Gdsl-Motif Lipase, Putative	0.0405	0.0050	-1.06	-4.17	14.58
251748_at	At3g55680	Invertase/Pectin Methylesterase Inhibitor Family Protein	0.0475	0.0320	-5.85	-2.19	3.96
254959_at	At4g10955	Lipase Class 3 Family Protein	0.0445	0.0137	4.74	-2.08	-5.56
252930_at	At4g39010	Glycosyl Hydrolase Family 9 Protein	0.0473	0.0279	-3.45	1.04	2.59
250801_at	At5g04960	Pectinesterase Family Protein	0.0475	0.0331	-2.50	5.98	1.09
245849_at	At5g13520	Hydrolase-Like Protein	0.0475	0.0376	-1.56	-3.13	4.35

A2.3. Structural proteins

250174_at	At5g14380	Arabinogalactan-Protein, Agp6	0.0466	0.0258	7.52	-2.70	1.52
245655_at	At1g56530	Hydroxyproline-Rich Glycoprotein Family Protein	0.0434	0.0091	7.94	-2.50	-6.67

B. Cellular communication/Signal transduction mechanism/transmembrane signal transduction

264369_at	At1g70430	Ste-20 Kinase Spak, Putative	0.0495	0.0485	4.37	-1.92	-5.88
260061_at	At1g73690	Cell Division Protein Kinase, Putative	0.0475	0.0345	1.12	4.45	-5.26
260161_at	At1g79860	Kinase Partner Protein-Like	0.0474	0.0219	4.92	2.32	-4.17
265410_at	At2g16620	Protein Kinase-Related	0.0495	0.0485	-1.85	3.41	-5.56
257233_at	At3g15050	Calmodulin-Binding Family Protein	0.0445	0.0145	2.70	-5.88	-1.85
257229_at	At3g16490	Calmodulin-Binding Family Protein	0.0495	0.0485	4.01	-8.62	2.48

257261_s_at	At3g21930	Receptor-Like Protein Kinase-Related	0.0454	0.0214	-1.67	4.12	-3.03
255757_at	At4g00460	Kinase Partner Protein-Like	0.0481	0.0306	2.25	3.31	-3.23
250443_at	At5g10520	Protein Kinase Family Protein	0.0441	0.0119	1.95	3.51	-4.55
247962_at	At5g56580	Mitogen-Activated Protein Kinase Kinase, Putative	0.0471	0.0277	2.78	-1.27	-3.45
247776_at	At5g58700	Phospholipase C	0.0465	0.0247	1.41	-5.26	2.64
C. Cell Cycle/ DNA processing/chromatin regulation and cytoskeleton reorganization							
259962_at	At1g53690	Dna-Directed RNA Polymerases I, Ii, And Iii Putative	0.0390	0.0033	10.13	-4.00	2.38
263751_at	At2g21300	Kinesin Motor Family Protein	0.0390	0.0031	-1.20	-2.94	5.21
252428_at	At3g47660	Regulator Of Chromosome Condensation (Rcc1) Protein	0.0466	0.0252	-3.49	3.14	1.27
254205_at	At4g24170	Kinesin Motor Family Protein	0.0425	0.0078	10.70	-2.63	1.18
250997_at	At5g02570	Histone H2B, Putative	0.0390	0.0028	1.44	-7.69	3.22
250433_at	At5g10400	Histone H3	0.0464	0.0235	1.81	3.40	-11.11
D. Development/storage proteins							
245658_at	At1g28270	Rapid Alkalinization Factor (Ralf) Family Protein	0.0473	0.0341	-1.39	-3.22	2.81
260346_at	At1g69320	Cle10, Putative	0.0494	0.0439	2.85	1.33	-2.63
266531_at	At2g16835	Water Channel Protein, Putative	0.0405	0.0046	-5.00	7.66	1.66
265949_at	At2g18540	Cupin Family Protein	0.0494	0.0470	-1.25	6.88	-5.00
258082_at	At3g25905	Cle27, Putative	0.0450	0.0322	-4.10	3.22	-4.82
252364_at	At3g48450	Nitrate-Responsive Noi Protein, Putative	0.0475	0.0373	1.47	3.37	-5.00
245267_at	At4g14060	Major Latex Protein-Related / Mlp-Related	0.0407	0.0054	2.66	-6.08	-1.76
250579_at	At5g07930	Terminal Ear1 Protein, Putative	0.0458	0.0224	6.35	-2.78	-1.64
250474_at	At5g10230	Annexin 7; Ann7	0.0428	0.0083	-1.43	4.16	-5.00
248112_at	At5g55350	Wax Synthase-Like Protein	0.0441	0.0111	-1.96	7.13	-3.85
E. Metabolism/energy/membrane associated proteins							
E1. Carbohydrate/soluble sugar/starch/aminoacid metabolism							
253066_at	At4g37770	1-Aminocyclopropane-1-Carboxylate Synthase, Putative	0.0482	0.0414	-2.54	2.87	-8.84
E2. Primary /secondary metabolism							
259388_at	At1g13420	Sulfotransferase Family Protein	0.0494	0.0474	-4.42	3.70	-3.30
259696_at	At1g63150	Pentatricopeptide (Ppr) Repeat-Containing Protein	0.0445	0.0136	-3.85	-1.82	5.55
256375_at	At1g66720	S-Adenosyl-L-Methionine:Carboxyl Methyltransferase Family Protein	0.0475	0.0319	6.18	-1.28	-2.86
263068_at	At2g17580	Polynucleotide Adenylyltransferase Family Protein	0.0447	0.0183	-3.03	-1.61	3.68
267094_at	At2g38080	Diphenol Oxidase, Putative	0.0485	0.0422	1.16	6.26	-3.85
266875_at	At2g44800	Oxidoreductase, 2Og-Fe(Ii) Oxygenase Family Protein	0.0445	0.0172	3.93	-1.10	-5.30
258121_s_at	At3g14530	Geranylgeranyl Pyrophosphate Synthase, Putative	0.0448	0.0195	-1.79	5.64	-5.26
257143_at	At3g20110	Cytochrome P450 Family Protein	0.0441	0.0120	1.34	4.49	-5.00
245508_at	At4g15720	Pentatricopeptide (Ppr) Repeat-Containing Protein	0.0397	0.0038	-1.45	-4.00	3.71
254513_at	At4g20240	Cytochrome P450, Putative (Metabolism)	0.0488	0.0443	-1.72	2.73	-2.70
253502_at	At4g31940	Cytochrome P450, Putative	0.0405	0.0046	-14.29	6.81	-2.17
250783_at	At5g05260	Cytochrome P450 (Metabolism)	0.0407	0.0055	3.17	1.03	-2.55
246970_at	At5g24900	Cytochrome P450 Family Protein	0.0407	0.0056	-2.78	7.01	-1.22
249484_at	At5g38970	Cytochrome P450, Putative (Metabolism)	0.0390	0.0022	-1.22	-4.66	6.39
248013_at	At5g56330	Carbonic Anhydrase Family Protein	0.0474	0.0307	1.20	4.97	-2.70
E3. Intracellular membrane/membrane bound							
264842_at	At1g03700	Integral Membrane Family Protein	0.0390	0.0025	4.38	-3.95	-2.56
255258_at	At4g05060	Vesicle Associated Membrane Family Protein	0.0445	0.0174	1.10	5.13	-3.48
F. Proteins with binding function or cofactor requirement							
261435_at	At1g07620	Gtp-Binding Protein, Putative	0.0447	0.0183	3.52	-11.11	1.13
264562_at	At1g55760	Btb/Poz Domain-Containing Protein	0.0445	0.0162	-1.56	5.89	-5.00
266730_at	At2g03110	RNA binding Protein, Putative	0.0475	0.0329	-1.89	3.52	-3.86
257397_at	At2g20430	P21-Rho-Binding Domain Protein	0.0459	0.0225	4.40	-1.56	-3.33
259324_at	At3g05310	Gtp-Binding Protein-Related	0.0475	0.0315	2.38	2.81	-4.35
257531_at	At3g07240	RNA binding Protein, Putative	0.0497	0.0495	-1.03	3.24	-5.56
258068_at	At3g25990	Dna-Binding Protein Gt-1-Related	0.0471	0.0274	1.21	6.32	-2.86
258028_at	At3g27473	Dc1 Domain-Containing Protein	0.0479	0.0397	3.61	-3.70	-1.39
254771_at	At4g13380	Heavy-Metal-Associated Domain-Containing Protein	0.0475	0.0378	6.90	-4.00	1.34
245538_at	At4g15200	Fh2 Domain Containing Protein	0.0434	0.0097	-1.32	4.26	-6.15

246963_at	At5g24820	Dna-Binding Protein Cnd41, Putative	0.0468	0.0267	3.27	-3.03	-1.05	
249571_at	At5g37620	Dc1 Domain-Containing Protein	0.0390	0.0025	2.81	-4.76	-1.22	
247941_at	At5g57200	Enth Domain-Containing Protein	0.0461	0.0230	2.82	-11.11	2.00	
G. Protein synthesis and translation								
252259_at	At3g49460	60S Acidic Ribosomal Protein-Related	0.0466	0.0256	1.38	-6.17	2.83	
H. Protein fate								
260891_at	At1g29080	Cysteine Protease, Spc1	0.0475	0.0348	10.06	2.38	-5.00	
256496_at	At1g31510	F-Box Family Protein-Related	0.0397	0.0038	-5.56	5.22	-2.13	
263245_at	At2g31470	F-Box Family Protein	0.0485	0.0422	2.29	8.79	-2.78	
255256_at	At4g05080	F-Box Family Protein	0.0497	0.0496	-2.12	4.89	-5.53	
I. Transcription/splicing/RNA processing								
264786_at	At2g17920	Zinc Finger Protein	0.0445	0.0145	1.86	6.88	-3.33	
267167_at	At2g37740	Zinc Finger (C2H2 Type) Family Protein	0.0474	0.0302	2.79	1.54	-7.25	
258734_at	At3g05860	Mads-Box Protein (Agl45)	0.0474	0.0299	3.63	-1.41	-2.70	
256395_at	At3g06120	Basic Helix-Loop-Helix (BHLH) Family Protein	0.0397	0.0035	2.75	-8.17	-1.53	
252578_at	At3g45480	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	0.0475	0.0318	3.10	-4.35	2.27	
254855_s_at	At4g12140	Zinc Finger (C3Hc4-Type Ring Finger) Family Protein	0.0405	0.0050	2.58	-4.61	-2.84	
245707_at	At5g04400	Nac2-Like Protein	0.0494	0.0470	3.08	-3.23	-1.33	
246798_at	At5g26930	Zinc Finger (Gata Type) Family Protein	0.0441	0.0113	-10.00	4.89	1.23	
246790_at	At5g27610	Myb Family Transcription Factor	0.0453	0.0210	-5.26	-1.04	3.43	
248212_at	At5g54020	Zinc Finger Protein-Like, Chp Type	0.0441	0.0127	3.09	-2.78	1.18	
248188_at	At5g54070	Heat Shock Transcription Factor Family Protein	0.0468	0.0267	-2.94	5.72	1.36	
II. Helicase activity								
260463_at	At1g10930	Helicase	0.0495	0.0483	-4.17	1.68	2.89	
261343_s_at	At3g43350	Helicase-Related	0.0445	0.0160	1.39	-10.00	3.17	
I2. RNA metabolism								
256120_at	At1g18130	TRNA Synthetase-Related -Related	0.0475	0.0252	-2.72	8.78	-2.99	
J. Transporters								
259810_at	At1g49810	Na ⁺ /H ⁺ Antiporter, Putative	0.0390	0.0013	1.05	3.68	-3.85	
246338_s_at	At3g44930	Cation/Hydrogen Exchanger, Putative (Chx10)	0.0466	0.0253	4.13	2.42	-3.45	
249884_at	At5g22910	Na ⁺ /H ⁺ Antiporter-Like Protein	0.0475	0.0316	-3.81	3.65	-3.64	
K. Transposable elements, viral and plasmid proteins								
265004_at	At1g26990	Copia-Like Retrotransposon Family	0.0448	0.0192	3.36	-4.04	-1.95	
262035_at	At1g37110	Copia-Like Retrotransposon Family	0.0475	0.0359	-3.33	5.46	1.80	
259988_at	At1g41797	Athila Orf 1, Putative	0.0441	0.0108	8.03	-10.06	-8.32	
263746_at	At2g21460	Copia-Like Retrotransposon Family	0.0448	0.0198	-2.95	8.04	-2.09	
266470_at	At2g31080	Non-Ltr Retrotransposon Family (Line)	0.0445	0.0162	-1.20	-5.00	5.05	
255463_at	At4g02960	Copia-Like Retrotransposon Family	0.0445	0.0163	7.56	-5.19	-1.94	
266586_s_at	At4g08060	Acta-Like Transposase Family (Tnp1/En/Spm)	0.0388	0.0005	-5.00	8.51	-2.22	
L. Unknown proteins								
261573_at	At1g01180	Expressed Protein	0.0476	0.0475	4.25	-2.63	-3.24	
263027_at	At1g24010	Expressed Protein	0.0405	0.0049	1.77	8.86	-9.09	
245646_s_at	At1g25025	Expressed Protein	0.0409	0.0176	-5.26	7.78	-1.59	
246353_s_at	At1g39190	Unknown Protein	0.0485	0.0388	1.03	-5.26	3.07	
246365_at	At1g39750	Unknown Protein	0.0434	0.0062	-4.76	2.20	3.18	
256175_at	At1g51670	Expressed Protein	0.0475	0.0374	10.29	1.53	-3.13	
264735_s_at	At1g62060	Expressed Protein	0.0475	0.0460	1.76	-2.96	2.68	
255853_at	At1g67020	Hypothetical Protein	0.0477	0.0477	-1.89	-3.03	7.37	
261779_at	At1g76230	Expressed Protein	0.0494	0.0431	-1.04	4.80	-3.85	
263055_at	At2g04600	Expressed Protein	0.0401	0.0041	-20.00	4.48	-1.30	
263672_at	At2g04820	Unknown Protein	0.0405	0.0048	-3.70	8.74	-2.17	
263337_at	At2g04990	Unknown Protein	0.0471	0.0339	-2.91	2.80	-3.24	
265655_at	At2g13920	Unknown Protein	0.0485	0.0391	2.43	-5.92	7.37	
263094_at	At2g16020	Hypothetical Protein	0.0475	0.0262	3.04	-4.20	-3.95	

267491_at	At2g19140	Unknown Protein	0.0488	0.0312	3.27	-1.39	-3.33
257367_at	At2g25780	Hypothetical Protein	0.0390	0.0016	3.92	-5.26	-1.49
266894_at	At2g26050	Expressed Protein	0.0466	0.0330	-2.93	4.17	-4.14
263781_at	At2g46360	Expressed Protein	0.0445	0.0159	2.19	7.61	-2.70
258442_at	At3g01015	Expressed Protein	0.0475	0.0365	-7.14	1.78	3.50
258955_s_at	At3g01450	Expressed Protein	0.0480	0.0302	4.48	1.86	-6.67
256436_at	At3g11150	Expressed Protein	0.0441	0.0113	-3.10	5.85	1.04
257308_at	At3g28120	Expressed Protein	0.0482	0.0380	-3.49	-2.60	6.37
257302_at	At3g30220	Expressed Protein	0.0434	0.0091	3.52	-3.57	1.12
256591_at	At3g31910	Expressed Protein	0.0493	0.0404	-4.17	2.95	-1.02
256592_at	At3g31915	Expressed Protein	0.0466	0.0327	-2.14	6.84	-4.57
252696_at	At3g43650	Unknown Protein	0.0445	0.0182	4.13	-4.04	-1.16
255392_at	At4g03680	Expressed Protein	0.0475	0.0471	-5.39	4.70	-10.05
255398_at	At4g03740	Expressed Protein	0.0493	0.0413	4.90	1.53	-5.96
255167_at	At4g07920	Unknown Protein	0.0457	0.0212	-1.51	6.74	-3.40
255085_at	At4g09290	Expressed Protein	0.0407	0.0163	-5.07	2.55	-8.07
254949_at	At4g11020	Expressed Protein	0.0441	0.0126	5.47	2.22	-4.00
245420_at	At4g17410	Expressed Protein	0.0434	0.0068	-5.00	3.73	-1.04
254383_at	At4g21950	Expressed Protein	0.0475	0.0363	1.76	6.79	-2.65
254295_at	At4g23080	Expressed Protein	0.0417	0.0053	1.02	2.97	-2.50
253656_at	At4g30090	Expressed Protein	0.0486	0.0392	2.34	-2.86	3.01
252889_at	At4g39380	Expressed Protein	0.0441	0.0107	-3.24	5.28	1.28
251129_at	At5g01150	Hypothetical Protein	0.0475	0.0463	-2.70	1.47	2.61
251012_at	At5g02580	Expressed Protein	0.0441	0.0091	1.62	5.73	-11.11
245153_at	At5g12450	Expressed Protein	0.0479	0.0298	-1.08	4.05	-3.70
249756_at	At5g24313	Expressed Protein	0.0453	0.0204	-2.86	2.27	3.84
246811_at	At5g27170	Expressed Protein	0.0482	0.0407	-3.23	1.37	3.66
246729_at	At5g28070	Hypothetical Protein	0.0445	0.0151	-1.49	4.31	-6.87
246711_at	At5g28190	Hypothetical Protein	0.0445	0.0133	1.72	3.41	-2.61
246642_s_at	At5g34920	Unknown Protein	0.0409	0.0176	4.90	-4.62	1.05
249099_at	At5g43550	Expressed Protein	0.0493	0.0456	5.14	1.99	-3.17
248706_at	At5g48530	Expressed Protein	0.0476	0.0388	-3.24	-2.88	3.99
248598_at	At5g49370	Hypothetical Protein	0.0441	0.0100	-2.56	4.37	1.78
247646_at	At5g59990	Expressed Protein	0.0475	0.0354	2.97	1.19	-3.03

^aProbe set ID represents Affymetrix probe set number.

^bAGI represents *Arabidopsis* Genome Initiative (AGI) locus identifier corresponding to each gene represented on the array.

^c q -value ≤ 0.05 (5% False discovery rate) was used to determine genes differentially expressed in PPV-infected protoplasts relative to the control.

^d p -values ($p \leq 0.05$) from the ANOVA were used to calculate q -value after adjusting the values with method as described [21].

^eCalculation of fold changes was defined in Methods.

^fhpt, hours post transfection.

^gDetermined following the method of the *Arabidopsis* MIPS (Munich Information Centre for Protein Sequences) functional classification scheme.