

Supplementary Table S3. Transcriptional Regulation of Genes Encoding Pathogenesis-Related (PR) Proteins, and Proteins Involved in Photosynthesis (PH) and Glycolysis (G)

Code ^a	Microarray ID	SGN-ID ^b	Annotation	Ratio ^c t=1h	Ratio ^c t=3h	Ratio ^c t=5h
PR	Les.4693.1.S1_at	SGN-U314796	Pathogenesis-related protein PR1a (P4) precursor	5.06	5.31	36.04
PR	LesAffx.10495.1.S1_at	SGN-U313773	P69C protein	-1.17	1.04	1.36
PR	Les.5611.1.S1_at	SGN-U330434	P69D protein	1.12	1.17	-1.11
PR	LesAffx.5691.1.S1_at	SGN-U314863	Pathogenesis related protein isoform b1 precursor (Solanum phureja)	1.46	1.07	1.34
PR	Les.3408.1.S1_at	SGN-U314797	Pathogenesis-related leaf protein 6 precursor (P6)	1.95	2.24	3.83
PR	Les.3408.1.S2_at	SGN-U314797	Pathogenesis-related leaf protein 6 precursor (P6)	1.17	1.58	3.31
PR	Les.4496.1.S1_at	SGN-U312368	Pathogenesis-related protein 10 (Solanum virginianum)	1.94	1.94	2.85
PR	Les.54.1.S1_at	SGN-U315428	Pathogenesis-related protein 1A1 precursor (PR-1A1)	-1.05	1.81	2.80
PR	Les.4460.1.S1_at	SGN-U316008	Pathogenesis-related protein P2 precursor	1.92	3.09	4.74
PR	LesAffx.55504.1.S1_at	SGN-U327156	Pathogenesis-related protein-like protein (Medicago truncatula)	1.24	-1.20	-3.09
PR	Les.3648.1.S1_at	SGN-U313772	Subtilisin-like endoprotease (P69A protein)	-1.02	-1.12	-1.25
PR	Les.3635.1.S1_at	SGN-U313775	Subtilisin-like protease (P69B protein)	1.38	1.60	1.80
PR	Les.1609.1.S1_at	SGN-U315668	Beta-1,3-endoglucanase 14 (Arabidopsis thaliana)	-1.87	1.29	2.33
PR	Les.1609.2.A1_at	SGN-U315668	Beta-1,3-endoglucanase 14 (Arabidopsis thaliana)	-1.01	1.21	3.12
PH	Les.147.1.S1_at	SGN-U312438	Chlorophyll a,b binding protein type I (Solanum tuberosum)	-1.15	-1.10	-1.35
PH	Les.1603.1.A1_at	SGN-U315963	Chlorophyll a-b binding protein 8	-1.07	-1.21	-1.58
PH	Les.1736.1.A1_at	SGN-U319612	Putative chlorophyll A-B binding protein (Arabidopsis thaliana)	-1.07	-1.04	-1.25
PH	Les.2092.1.S1_at	SGN-U312336	Secretory peroxidase (Nicotiana tabacum)	-1.10	-1.74	-2.22
PH	Les.2092.2.S1_at	SGN-U312336	Secretory peroxidase (Nicotiana tabacum)	-1.68	-3.69	-1.50
PH	Les.2286.1.S1_at	SGN-U312827	Light-harvesting complex protein (Arabidopsis thaliana)	1.03	-1.09	-1.44
PH	Les.233.1.S1_at	SGN-U312436	Chlorophyll a-b binding protein 4	-1.02	-1.04	-1.10
PH	Les.2478.1.S1_a_at	SGN-U313214	Chlorophyll a-b binding protein 3C-like (Solanum tuberosum)	-1.02	-1.03	-1.13
PH	Les.2478.1.S1_at	SGN-U313214	Chlorophyll a-b binding protein 3C-like (Solanum tuberosum)	1.00	-1.07	-1.09
PH	Les.2924.1.S1_at	SGN-U313159	Sulfur (Nicotiana tabacum)	-1.07	-1.06	-1.34
PH	Les.3016.1.S1_at	SGN-U314750	Chlorophyll a-b binding protein 12	-1.09	1.05	-1.44
PH	Les.3054.1.S1_at	SGN-U314748	Chlorophyll a-b binding protein 13	-1.00	-1.06	-1.16
PH	Les.3062.1.S1_at	SGN-U312661	Chloroplast pigment-binding protein CP29 (Nicotiana tabacum)	-1.12	-1.04	-1.29
PH	Les.3062.2.S1_at	SGN-U312661	Chloroplast pigment-binding protein CP29 (Nicotiana tabacum)	1.13	-3.83	1.38
PH	Les.3073.1.S1_at	SGN-U312967	Photosystem II 22 kDa protein	-1.03	-1.09	-1.21
PH	Les.3123.1.S1_at	SGN-U334377	Geranylgeranyl reductase (Nicotiana tabacum)	-1.20	-1.03	-1.62
PH	Les.3297.1.S1_at	SGN-U312593	Chlorophyll a/b-binding protein (cab-11)	-1.08	-1.06	-1.38
PH	Les.3297.2.S1_at	SGN-U312593	Chlorophyll a/b-binding protein (cab-11)	1.42	-4.81	1.52
PH	Les.3775.1.S1_at	SGN-U312713	Chlorophyll a-b binding protein 6A	-1.05	-1.11	-1.24
PH	Les.4083.1.S1_at	SGN-U312663	Chlorophyll a-b binding protein 7	-1.02	-1.15	-1.22
PH	Les.4259.1.S1_at	SGN-U312843	Chlorophyll a-b binding protein 8	-1.11	-1.17	-1.54

Supplementary Table 3, Continued

Code ^a	Microarray ID	SGN-ID ^b	Annotation	Ratio ^c t=1h	Ratio ^c t=3h	Ratio ^c t=5h
PH	Les.4345.2.A1_a_at	SGN-U313217	Chlorophyll a-b binding protein 1B	-1.10	-1.10	-1.18
PH	Les.4345.2.A1_x_at	SGN-U313217	Chlorophyll a-b binding protein 1B	-1.12	-1.10	-1.25
PH	Les.4345.3.S1_x_at	SGN-U313211	Chlorophyll a-b binding protein 1B	-1.06	-1.09	-1.13
PH	Les.4345.4.A1_at	SGN-U313211	Chlorophyll a-b binding protein 1B	1.03	-1.18	-1.18
PH	Les.4345.4.A1_x_at	SGN-U313211	Chlorophyll a-b binding protein 1B	1.03	-1.11	-1.17
PH	Les.4359.1.S1_at	SGN-U313221	Chlorophyll a-b binding protein 3C	-1.11	1.22	1.49
PH	Les.4359.2.A1_at	SGN-U313221	Chlorophyll a-b binding protein 3C	1.03	1.33	2.15
PH	Les.4492.1.S1_at	SGN-U312334	Chlorophyll a-b binding protein CP24 10A	-1.34	-5.81	1.17
PH	Les.4492.2.S1_at	SGN-U312334	Chlorophyll a-b binding protein CP24 10A	-1.08	-1.07	-1.43
PH	Les.4492.3.S1_at	SGN-U312336	Secretory peroxidase (Nicotiana tabacum)	-1.10	-1.04	-1.53
PH	Les.608.1.S1_at	SGN-U312449	Type I (26 kD) CP29 polypeptide	-1.08	-1.11	-1.35
PH	LesAffx.41489.1.S1_at	SGN-U321924	Hypothetical protein	-1.26	-1.09	-1.02
PH	LesAffx.57669.1.S1_at	SGN-U319612	Putative chlorophyll A-B binding protein (Arabidopsis thaliana)	-1.33	1.10	-1.52
PH	Les.4228.1.A1_at	SGN-U314594	Chloroplast photosystem I reaction center V	1.06	-1.10	-1.05
PH	Les.4228.3.S1_at	SGN-U314594	Chloroplast photosystem I reaction center V	1.01	-1.09	-1.10
PH	Les.1305.1.A1_at	SGN-U315765	Ultraviolet-B-repressible protein (Gossypium hirsutum)	1.10	1.15	-1.04
PH	Les.2377.1.S1_at	SGN-U314018	Ultraviolet-B-repressible protein (Gossypium hirsutum)	-1.02	-1.03	-1.39
PH	Les.2377.2.A1_at	SGN-U314018	Ultraviolet-B-repressible protein (Gossypium hirsutum)	1.05	-1.06	-1.22
PH	Les.5812.1.S1_at	SGN-U315764	Ultraviolet-B-repressible protein (Gossypium hirsutum)	1.04	1.08	-1.13
PH	Les.1290.1.A1_at	SGN-U314676	Photosystem II 10 kDa polypeptide (Solanum tuberosum)	1.41	-1.00	1.00
PH	Les.3099.1.S1_at	SGN-U312648	Photosystem I subunit XI (Nicotiana attenuata)	-1.06	-1.05	-1.11
PH	Les.324.1.S1_at	SGN-U314260	Putative photosystem I subunit III (Nicotiana tabacum)	-1.11	-1.08	-1.22
PH	Les.867.1.S1_at	SGN-U312640	Photosystem I reaction center subunit II (Solanum lycopersicum)	-1.03	1.01	-1.19
PH	LesAffx.482.1.S1_at	SGN-U345822	Photosystem I assembly protein ycf4 (Solanum tuberosum)	1.46	-1.10	-1.38
PH	Les.2168.1.S1_at	SGN-U313179	Photosystem I reaction centre subunit N (Medicago truncatula)	1.01	1.06	-1.25
PH	Les.3175.1.S1_at	SGN-U313090	Putative desaturase-like protein (Trifolium repens)	-1.06	-1.13	-1.25
PH	Les.1472.1.S1_at	SGN-U312871	Photosystem II oxygen-evolving complex protein 3 precursor	-1.03	-1.04	-1.15
PH	Les.3029.1.S1_at	SGN-U312532	Oxygen-evolving enhancer protein 1	-1.06	-1.14	-1.22
PH	Les.4007.1.S1_at	SGN-U312531	Oxygen-evolving enhancer protein 1	-1.02	-1.04	-1.36
PH	Les.482.1.S1_at	SGN-U312572	Oxygen-evolving enhancer protein 2	-1.01	-1.04	-1.13
PH	Les.5738.1.S1_at	SGN-U317040	Oxygen evolving complex protein-like (Oryza sativa)	-1.10	-1.08	-1.35
PH	Les.626.1.S1_at	SGN-U318866	putative PsbP domain protein (Arabidopsis thaliana)	1.15	1.19	-1.11
PH	Les.626.2.S1_at	SGN-U318866	putative PsbP domain protein (Arabidopsis thaliana)	1.09	1.17	-1.38
PH	Les.626.3.S1_at	SGN-U318866	putative PsbP domain protein (Arabidopsis thaliana)	1.05	1.20	-1.15

Supplementary Table 3, Continued

Code ^a	Microarray ID	SGN-ID ^b	Annotation	Ratio ^c t=1h	Ratio ^c t=3h	Ratio ^c t=5h
PH	LesAffx.48402.1.A1_at	SGN-U323580	Thylakoid lumenal 21.5 kDa protein (Arabidopsis thaliana)	-1.15	-1.23	-1.08
PH	LesAffx.48402.1.S1_at	SGN-U323580	Thylakoid lumenal 21.5 kDa protein (Arabidopsis thaliana)	-1.05	1.04	-1.45
PH	LesAffx.67937.1.S1_at	SGN-U326478	Hypothetical protein (Arabidopsis thaliana)	-1.20	-1.24	-1.52
PH	LesAffx.51226.1.A1_at	SGN-U342407	Apocytochrome f precursor (Solanum tuberosum)	2.32	1.11	1.06
PH	LesAffx.51226.1.S1_at	SGN-U342407	Apocytochrome f precursor (Solanum tuberosum)	2.12	-1.13	1.08
PH	LesAffx.66410.1.S1_at	SGN-U343039	Photosystem II CP43-chlorophyll (Populus trichocarpa)	-1.34	-1.02	-1.72
PH	Les.3011.1.S1_at	SGN-U314192	NADPH:protochlorophyllide oxidoreductase (Nicotiana tabacum)	-1.29	-1.43	-2.05
PH	Les.5120.1.S1_at	SGN-U313279	NADPH:protochlorophyllide oxidoreductase (Nicotiana tabacum)	-1.21	-1.20	-1.89
PH	Les.5850.1.S1_at	SGN-U313280	NADPH:protochlorophyllide oxidoreductase (Nicotiana tabacum)	-1.37	-1.24	-1.89
G	LesAffx.71366.1.S1_at	SGN-U322121	Hypothetical protein (Arabidopsis thaliana)	-1.20	-1.07	1.13
G	Les.3182.1.S1_at	SGN-U312518	Hypothetical protein (Solanum tuberosum)	-1.08	-1.05	-1.27
G	Les.4336.1.S1_at	SGN-U313176	Phosphoglycerate kinase (Solanum tuberosum)	-1.36	-1.10	-1.44
G	Les.4336.2.A1_at	SGN-U313176	Phosphoglycerate kinase (Solanum tuberosum)	-1.02	-1.11	-1.23
G	Les.4336.3.S1_at	SGN-U313176	Phosphoglycerate kinase (Solanum tuberosum)	-1.16	-1.05	-1.30
G	Les.1829.1.S1_at	SGN-U314788	Putative plastidic aldolase (Oryza sativa subsp. japonica)	-1.03	-1.09	1.27
G	Les.246.1.S1_at	SGN-U314331	Fructose-bisphosphate aldolase-like protein (Solanum tuberosum)	1.17	1.04	1.09
G	Les.3060.1.S1_at	SGN-U312609	Plastidic aldolase NPALDP1 (Nicotiana paniculata)	-1.04	-1.11	-1.14
G	Les.3174.1.S1_at	SGN-U312608	Plastidic aldolase NPALDP1 (Nicotiana paniculata)	-1.16	-1.18	-1.26
G	Les.4275.1.S1_at	SGN-U312344	Plastidic aldolase (Nicotiana paniculata)	-1.05	-1.14	-1.13
G	Les.5598.1.S1_at	SGN-U314332	Fructose-bisphosphate aldolase-like (Solanum tuberosum)	-1.04	-1.03	1.13
G	Les.3516.1.S1_at	SGN-U316705	Hexokinase	1.08	1.10	1.13
G	Les.3815.1.S1_at	SGN-U335794	Hexokinase	-1.25	-1.05	1.00
G	Les.1509.1.S1_at	SGN-U313534	Pyruvate kinase isozyme A (Nicotiana tabacum)	-1.08	-1.23	-1.23
G	Les.2323.1.S1_at	SGN-U313639	Putative pyruvate kinase (Arabidopsis thaliana)	1.00	-1.05	1.08
G	Les.3129.1.S1_at	SGN-U314040	Pyruvate kinase, cytosolic isozyme (Solanum tuberosum)	-1.14	-1.16	-1.32
G	Les.3129.2.S1_at	SGN-U314040	Pyruvate kinase, cytosolic isozyme (Solanum tuberosum)	-1.34	-1.18	-1.71
G	Les.4288.1.S1_at	SGN-U334503	Pyruvate kinase family protein (Oryza sativa subsp. japonica)	-1.27	-2.78	-1.82
G	Les.4562.1.S1_at	SGN-U312582	Pyruvate kinase (Arabidopsis thaliana)	-1.03	-1.27	-1.09
G	Les.5326.1.S1_at	SGN-U313540	Putative pyruvate kinase (Oryza sativa subsp. japonica)	1.09	-1.36	1.06
G	Les.5649.1.A1_at	SGN-U320512	Pyruvate kinase (Nicotiana tabacum)	-1.04	-1.46	-1.12
G	Les.5649.1.S1_at	SGN-U320512	Pyruvate kinase (Nicotiana tabacum)	-1.41	-1.34	-1.31
G	LesAffx.61184.1.S1_at	SGN-U313534	Pyruvate kinase isozyme A (Nicotiana tabacum)	-1.29	-1.14	-1.51
G	LesAffx.66367.1.S1_at	SGN-U320005	Pyruvate kinase, cytosolic isozyme (Nicotiana tabacum)	-1.16	-1.15	-1.41
G	Les.186.1.S1_at	SGN-U315933	Glyceraldehyde-3-phosphate dehydrogenase (Nicotiana tabacum)	-1.30	-1.21	-1.26
G	Les.262.1.S1_at	SGN-U314312	Glyceraldehyde 3-phosphate dehydrogenase (Solanum tuberosum)	-1.11	1.01	1.13

Supplementary Table 3, Continued

Code ^a	Microarray ID	SGN-ID ^b	Annotation	Ratio ^c t=1h	Ratio ^c t=3h	Ratio ^c t=5h
G	Les.2888.1.S1_at	SGN-U312461	Glyceraldehyde-3-phosphate dehydrogenase A (Nicotiana tabacum)	-1.10	-1.00	-1.32
G	Les.2933.1.S1_at	SGN-U312804	Glyceraldehyde-3-phosphate dehydrogenase B subunit (Glycine max)	-1.11	-1.15	-1.34
G	Les.3072.1.S1_at	SGN-U312459	Glyceraldehyde-3-phosphate dehydrogenase A (Nicotiana tabacum)	-1.15	-1.15	-1.50
G	Les.3072.2.S1_at	SGN-U312459	Glyceraldehyde-3-phosphate dehydrogenase A (Nicotiana tabacum)	-1.43	-1.14	-2.08
G	Les.3072.3.S1_at	SGN-U312459	Glyceraldehyde-3-phosphate dehydrogenase A (Nicotiana tabacum)	-1.28	-1.19	-1.94
G	Les.3242.1.A1_at	SGN-U312802	Glyceraldehyde-3-phosphate dehydrogenase B subunit (Glycine max)	-1.07	-1.19	-1.40
G	Les.3242.2.S1_at	SGN-U312802	Glyceraldehyde-3-phosphate dehydrogenase B subunit (Glycine max)	-1.34	-1.14	-1.89
G	Les.3242.3.S1_at	SGN-U312802	Glyceraldehyde-3-phosphate dehydrogenase B subunit (Glycine max)	-1.23	-1.13	-1.85
G	Les.4797.1.S1_at	SGN-U317897	Glucose-6-phosphate isomerase	-1.17	-1.23	-1.53
G	LesAffx.2135.1.S1_at	SGN-U315951	Glucose-6-phosphate isomerase	-1.33	1.05	-1.81
G	LesAffx.2135.3.S1_at	SGN-U315951	Glucose-6-phosphate isomerase	-1.07	-1.08	-1.26
G	LesAffx.2135.4.S1_at	SGN-U315951	Glucose-6-phosphate isomerase	-1.43	-1.01	-1.67
G	Les.2900.1.S1_at	SGN-U315352	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta (Solanum tuberosum)	-1.06	-1.37	-1.25
G	LesAffx.51723.1.S1_at	SGN-U320209	Phosphofructokinase, putative (Phosphofructokinase) (Medicago truncatula)	-1.65	-1.53	-1.10
G	LesAffx.62009.1.S1_at	SGN-U318557	Putative pyrophosphate-fructose-6-phosphate 1-phosphotransferase (Arabidopsis thaliana)	-1.72	-1.01	-1.15
G	LesAffx.68197.1.S1_at	SGN-U314840	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase alpha subunit (Solanum tuberosum)	-1.15	-1.11	-1.46
G	Les.303.1.S1_at	SGN-U312379	Enolase	-1.07	-1.08	-1.03
G	Les.3932.1.S1_at	SGN-U312378	Enolase	-1.64	1.05	-1.31
G	Les.3932.2.S1_at	SGN-U312378	Enolase	-1.66	1.04	-1.48
G	Les.3932.3.S1_at	SGN-U312378	Enolase	-1.13	1.08	-1.07
G	Les.5741.1.S1_at	SGN-U318766	Putative enolase (Arabidopsis thaliana)	-1.16	-1.12	1.25
G	Les.96.1.A1_at	SGN-U327280	L-lactate dehydrogenase	-1.01	1.41	4.55
G	Les.97.1.S1_at	SGN-U326680	L-lactate dehydrogenase	1.04	1.96	3.58
G	Les.4801.1.S1_at	SGN-U316396	Pyruvate dehydrogenase complex E2 subunit 1 (Arabidopsis thaliana)	-1.19	1.01	1.05
G	LesAffx.3802.1.S1_at	SGN-U316577	Dihydrolipoamide succinyltransferase (Medicago truncatula)	-1.66	-1.23	-1.47
G	LesAffx.3802.2.S1_at	SGN-U316577	Dihydrolipoamide succinyltransferase (Medicago truncatula)	-1.51	1.02	-1.28

^a Proteins encoded by genes indicated with PH (photosynthesis) or G (glycolysis) are functionally related to these processes according to the Biological Process GO annotation. ^b Gene identifier from the *Solanaceae* Genomics Network. ^c The values shown in bold indicate significantly different gene expression between the Cf-4/Avr4 and control seedlings ($P \leq 0.01$). Ratios were used for the expression profiles presented in Figure 5.