

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-12: Liste von Genen, deren Expression durch Pep13-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Fragment	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession- nummer	Protein/Mögliche Funktion
PC254-1	270	41/46	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
PC254-4	ca 208	39/40	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
PC254-2	270	57/65	Arabidopsis thaliana	AT1G07890	NP_172267	APX1
PC254-3	265	31/96	Danio rerio		XP_694208	PREDICTED: similar to zinc finger protein 91 (HPF7, HTF10)
PC255-1-1	468	85/116	Petroselinum crispum		CAA48413	BPF-1a protein
PC255-1-2	469	103/158	Petroselinum crispum		CAA48413	BPF-1a protein
PC255-1-3	472	71/95	Petroselinum crispum		CAA48413	BPF-1a protein
PC255-1-4	466	103/151	Petroselinum crispum		CAA48413	BPF-1a protein
PC255-2-2	260	43/72	Arabidopsis thaliana	At1g30760	NP_174363	electron carrier (see pc300-3)
PC255-2-3	258	14/24	Arabidopsis thaliana	At5g41990	NP_568599	WNK8
PC255-2-4	287	33/81	Papaver somniferum		AAC61842	tyrosin/dopa decarboxylase
PC267-2	187					no significant similarity found
PC267-3	168					no significant similarity found
PC267-4	147					no significant similarity found
PC282-1	71	21/23	Daucus carota		AAA98926	secreted glycoprotein EP4, 47K, precursor
PC282-4	71	21/23	Daucus carota		AAA98926	secreted glycoprotein EP4, 47K, precursor
PC282-3	69	21/22	Arabidopsis thaliana	At4g11860	NP_567383	unknown protein
PC408-1	112	22/36	Arabidopsis thaliana	At3g25150	NP_189151	RNA binding / nucleic acid binding / protein transporter (see 590-2)
PC408-2	112	17/23	Corynebacterium efficiens		NP_738153	conserved hypothetical protein (see 665-2-2)
PC408-3	114	18/26	Phaseolus vulgaris		AAF19265	beta-glucan binding protein
PC408-4	109					no significant similarity found
PC409-1	198					no significant similarity found
PC409-2	198					no significant similarity found
PC409-3	198					no significant similarity found
PC409-4	198					no significant similarity found
PC412-1	157	46/50	Lycopersicon esculentum		CAA51679	ubiquitin (see 597-4)
PC412-2	336	16/23	Arabidopsis thaliana	At4g16146	AAM64550	unknown protein
PC412-4	336	16/23	Arabidopsis thaliana	At4g16146	AAM64550	unknown protein
PC412-3	69	15/22	Oryza sativa		BAD82381	putative S-receptor kinase (see 414-2-4)

PC423-1	37					no significant similarity found
PC423-3	53					no significant similarity found
PC425-1	45					no significant similarity found
PC425-2	36					no significant similarity found
PC425-4	32					no significant similarity found
PC426-1	37					no significant similarity found
PC426-2	28					no significant similarity found
PC426-3	48					no significant similarity found
PC426-4	44					no significant similarity found
PC511-1	181	16/47	Burkholderia vietnamensis		ZP_00426125	Thiamine biosynthesis protein ThiC
PC511-3	110					no significant similarity found
PC511-4	178	32/35	Arabidopsis thaliana	At1g70090	NP_564983	transferase, transferring glycosyl groups / transferase, transferring hexosyl groups
PC531-1	135	20/35	Pyrus pyrifolia		AAT28309	leucine-rich repeat receptor-like protein kinase
PC531-3	161	26/48	Daucus carota		AAB50843	elicitor induced glycoprotein iEP4
PC531-4	198	33/38	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 521-1-1)
PC547-1-1	144	41/46	Arabidopsis thaliana	At1g51760	NP_175587	IAR3 (IAA-ALANINE RESISTANT 3); metalloproteinase
PC547-1-4	144	41/46	Arabidopsis thaliana	At1g51760	NP_175587	IAR3 (IAA-ALANINE RESISTANT 3); metalloproteinase
PC547-1-2	143	27/37	Arabidopsis thaliana	AT1G15060	NP_172960	unknown protein
PC547-1-3	415	80/103	Pyrus communis		AAC24001	isoflavone reductase related protein
PC547-2-2	140	40/45	Arabidopsis thaliana	At1g51760	NP_175587	IAR3 (IAA-ALANINE RESISTANT 3); metalloproteinase
PC547-2-3	144	40/46	Arabidopsis thaliana	At1g51760	NP_175587	IAR3 (IAA-ALANINE RESISTANT 3); metalloproteinase
PC547-2-4	140	40/45	Arabidopsis thaliana	At1g51760	NP_175587	IAR3 (IAA-ALANINE RESISTANT 3); metalloproteinase
PC599-1	54					no significant similarity found
PC599-2	54					no significant similarity found
PC599-4	54					no significant similarity found
PC634-1	186	18/26	Oryza sativa		XP_474637	OSJNBa0039G19.7 (see 630-1-2)
PC634-2	185	25/32	Arabidopsis thaliana	At1g47550	NP_175186	unknown protein
PC634-4	101	32/33	Cucumis sativus		AAB37749	expansin S2 precursor
PC664-1-1	243	42/56	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 334-1)
PC664-1-2	337	57/115	Arabidopsis thaliana	At3g46620	NP_190246	zinc finger (C3HH4-type RING finger) family protein
PC664-1-3	243	43/61	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 253-1)
PC664-1-4	243	42/56	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 664-2-3)
PC664-2-1	243	28/57	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 664-1-3)
PC664-2-2	246	32/81	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 664-1-3)
PC664-2-3	244	42/83	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 664-1-3)
PC664-2-4	242	13/14	Corynebacterium efficiens		BAC18353	conserved hypothetical protein (see 664-1-3)
PC674-1	204	22/43	Arabidopsis thaliana	At5g01250	NP_195745	transferase/ transferase, transferring glycosyl groups

PC674-2	205					no significant similarity found
PC674-3	205					no significant similarity found
PC674-4	198	19/33	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC677-1	296	43/61	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 684-1)
PC677-2	148	29/37	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 724-3)
PC709-1	182					no significant similarity found (see 707-1)
PC709-2	130	34/44	Arabidopsis thaliana	At5g62220	NP_201028	exostosin family protein
PC709-3	133	21/23	Arabidopsis thaliana	At3g47750	NP_190363	ATATH7; ATPase, coupled to transmembrane movement of substances
PC709-4	130	37/43	Arabidopsis thaliana	At5g32450	NP_568522	nucleic acid binding (see 701-2-2)
PC713-1-1	143					no significant similarity found
PC713-1-2	202	27/38	Gossypium hirsutum		AAL93154	bacterial-induced class III peroxidase (see 691-1-4)
PC713-1-3	143					no significant similarity found
PC713-1-4	202	15/29	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC713-2-1	149	37/48	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 685-1)
PC713-2-2	149	37/48	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 685-1)
PC713-2-4	86					no significant similarity found
PC722-1	202	47/55	Linum usitatissimum		AAB02926	peroxidase (see 672-3)
PC722-2	201	57/66	Linum usitatissimum		AAB02926	peroxidase (see 672-3)
PC722-3	201	56/66	Linum usitatissimum		AAB02926	peroxidase (see 672-3)
PC722-4	202	27/54	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3) or P450 monooxygenase [Artemisia annua, ABG49365]
PC727-1	185					no significant similarity found
PC727-3	89					no significant similarity found
PC727-4	109	17/20	Medicago sativa		T09535	dnaK-type molecular chaperone hsp70 (see 177-2)
PC750-1	208	32/66	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC750-2	207	27/55	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC750-3	117	21/26	Prunus armeniaca		Q9XF97	60 S ribosomal protein L4 (L1)
PC752-1-1	156					no significant similarity found
PC752-1-2	155	19/29	Ipomoea trifida		AAC23542	receptor protein kinase
PC752-1-3	208	32/66	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC752-1-4	155	20/47	Yersinia intermedia ATCC 29909		ZP_00834542	COG0477: Permeases of the major facilitator superfamily
PC752-2-1	156					no significant similarity found
PC752-2-2	156					no significant similarity found
PC752-2-3	155					no significant similarity found
PC752-2-4	155					no significant similarity found
PC767-1	201	59/66	Spinacia oleracea		P05314	ferredoxin-nitrite reductase, chloroplast precursor
PC767-2	153	26/42	Arabidopsis thaliana	At3g28210	NP_189461	PMZ (see 781-1)
PC767-3	152	17/42	Candida albicans		XP_716085	hypothetical protein CaO19_7420

PC767-4	145					no significant similarity found
PC785-1	86					no significant similarity found
PC785-2	90	22/28	Lactuca sativa		AAL77102	carbohydrate oxidase
PC785-3	90	22/28	Lactuca sativa		AAL77102	carbohydrate oxidase
PC785-4	90	18/27	Lactuca sativa		AAL77102	carbohydrate oxidase
PC794-1	224	31/47	Arabidopsis thaliana	Atlg13570	NP_172814	unknown protein
PC794-2	227	47/74	Arabidopsis thaliana	Atlg14550	NP_172907	peroxidase
PC794-3	226	35/58	Arabidopsis thaliana	Atlg14550	NP_172907	peroxidase

Tabelle 7-13: Liste von Genen, deren Expression durch HrpZ_{PspH}-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Fragment	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession- nummer	Protein/Mögliche Funktion
PC259-1	272	49/55	Arabidopsis thaliana	AT5G01220	NP_568085	SQD2 (SULFOQUINOVOSYLDIACYLGLYCEROL 2)
PC259-2	273					no significant similarity found
PC259-3	272	44/50	Arabidopsis thaliana	AT4G16143	NP_567485	protein transporter
PC259-4	265	74/86	Arabidopsis thaliana	AT1G51710	NP_564596	UBP6 (UBIQUITIN-SPECIFIC PROTEASE 6)
PC276-1	271	30/43	Arabidopsis thaliana	At2g28590	NP_180426	ATP binding/protein kinase (see 564-1)
PC276-2	271	13/35	Synechococcus		YP_476967	hypothetical protein CYB_0720
PC276-3	271	48/66	Arabidopsis thaliana	AT4G11600	NP_192897	ATGPX6 (GLUTATHIONE PEROXIDASE 6)
PC276-4	275	23/30	Arabidopsis thaliana	AT2G44900	NP_566029	ubiquitin-protein ligase (see 564-4)
PC297-1	/					/
PC297-2	/					/
PC297-3	/					/
PC297-4	/	68/132	Arabidopsis thaliana	AT5G61820	NP_200990	unknown protein
PC405-1-1	387	121/128	Arabidopsis thaliana	AT5G56030	NP_200414	HSP81-2
PC405-1-2	?					-
PC405-1-3	/					/
PC405-1-4	/					/
PC405-2-1	552	22/25	Oryza sativa		NP_910689	hypothetical protein predicted by FGENESH etc.
PC405-2-2	421	56/76	Arabidopsis thaliana	At4g33850	NP_194116	catalytic
PC405-2-3	361	40/97	Lotus japonicus		AAC62626	rac GTPase activating protein 3 (see 406)
PC405-2-4	128	38/42	Matricaria chamomilla		BAA87068	ethylene-responsive element binding protein 1 homolog
PC460-1	162	18/24	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 470-1)
PC460-2	166	34/39	Arabidopsis thaliana	At3g23540	NP_188996	catalytic
PC460-3	<193	11/17	Arabidopsis thaliana	At1g14990	NP_172952	unknown protein
PC460-4	166	20/45	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC498-1	100	28/33	Arabidopsis thaliana	At4g13350	NP_193071	unknown protein
PC498-2	100	28/33	Arabidopsis thaliana	At4g13350	NP_193071	unknown protein
PC498-3	101	28/33	Arabidopsis thaliana	At4g13350	NP_193071	unknown protein

PC498-4	100	28/33	Arabidopsis thaliana	At4g13350	NP_193071	unknown protein
PC666-1	239					no significant similarity found
PC666-2	239	13/14	Corynebacterium efficiens		NP_738153	conserved hypothetical protein (ähnlich 664-1-1) (see 738)
PC666-3	236					no significant similarity found (BUT no taq)
PC666-4	220	60/78	Linum usitatissimum		AAB02926	peroxidase (see 722-2)

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-14: Liste von Genen, deren Expression durch NLP_{pp}-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession-nummer	Protein/Mögliche Funktion
PC506-1	124	27/39	Verbascum thapsus		AAL08686	ADH2 (see 525-1)
PC506-2	124	27/39	Verbascum thapsus		AAL08686	ADH2 (see 525-1)
PC506-3	124	27/39	Verbascum thapsus		AAL08686	ADH2 (see 525-1)
PC506-4	124	27/39	Verbascum thapsus		AAL08686	ADH2 (see 525-1)
PC578-1	198	19/40	Arabidopsis thaliana	At4g27500	NP_194480	PPI1 (PROTON PUMP INTERACTOR 1)
PC578-2	187	29/51	Arabidopsis thaliana	At4g16144	NP_680708	unknown protein (see 579-1)
PC578-3	187	28/51	Arabidopsis thaliana	At4g16144	NP_680708	unknown protein (see 579-1)
PC578-4	199	18/32	Arabidopsis thaliana	At4g27500	NP_194480	PPI1 (PROTON PUMP INTERACTOR 1)
PC600-2-1	436	47/70	Arabidopsis thaliana	At1g72960	NP_177439	nucleotide binding
PC600-2-2	433	54/72	Arabidopsis thaliana	At4g27720	NP_567786	unknown protein
PC600-2-3	388	26/51	Arabidopsis thaliana	At1g64650	NP_176646	unknown protein
PC600-2-4	437	86/144	Arabidopsis thaliana	At3g08970	NP_187509	heat shock protein binding / unfolded protein binding
PC618-2-1	305	48/106	Nicotiana tabacum		AAP03884	ACRE 74 (U-box, homologous to PC CMPG1) (see 620-3)
PC618-2-2	209	37/46	Oryza sativa		NP_001064283	putative cinnamyl alcohol dehydrogenase (Os10g0194200) (see 701-2-4)
PC618-2-3	315	78/90	Arabidopsis thaliana	At4g14710	NP_567441	metal ion binding
PC618-2-4	374	25/75	Arabidopsis thaliana		AAG10812	probable retroelement polyprotein
PC670-1-1	164	43/49	Euphorbia esula		AAF65770	cyclophilin
PC670-2-1	162	32/34	Euphorbia esula		AAF65770	Cyclophilin (see 108-1-1)
PC670-2-2	53					no significant similarity found
PC670-2-3	162	33/34	Euphorbia esula		AAF65770	Cyclophilin (see 108-1-1)
PC670-2-4	47	14/15	Arabidopsis thaliana	At3g56300	NP_191189	ATP binding / cysteine-tRNA ligase
PC717-1	177	42/54	Arabidopsis thaliana	At3g48990	NP_190468	AMP binding / catalytic (see 740-4)
PC717-2	176	36/48	Arabidopsis thaliana	At3g48990	NP_190468	AMP binding / catalytic (see 740-4)
PC717-3	177	39/54	Arabidopsis thaliana	At3g48990	NP_190468	AMP binding / catalytic (see 740-4)
PC717-4	148					no significant similarity found
PC742-1	324	29/38	Gossypium hirsutum		AAL93154	bacterial-induced class III peroxidase (see 691-1-4)
PC742-3	40				-	no significant similarity found

PC742-4	466	106/155	Arabidopsis thaliana	At1g79690	NP_565218	hydrolase/ isopentenyl-diphosphate delta-isomerase (BUT no taq)
PC763-1	228	61/75	Arabidopsis thaliana	At2g31960	NP_850178	ATGSL03 (GLUCAN SYNTHASE-LIKE 3)
PC763-3	228	54/74	Arabidopsis thaliana	At4g28570	NP_194586	electron carrier
PC763-4	229	46/49	Daucus carota		BAA03413	EDGP precursor (see 808-4)
PC833-1	207	23/40	Nicotiana tabacum		AAB02006	epoxide hydrolase
PC833-2	276	19/30	Arabidopsis thaliana	At1g74740	NP_177612	CPK30; calcium- and calmodulin-dependent protein kinase (see 832-2)
PC833-3	214	17/46	Streptomyces avermitilis		NP_824731	putative transmembrane transport protein
PC833-4	276	23/32	Arabidopsis thaliana	At1g74740	NP_177612	CPK30; calcium- and calmodulin-dependent protein kinase (see 832-2)

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-15: Liste von Genen, deren Expression durch LPS-Behandlung nach 1 h induziert wird.
 cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession- nummer	Protein/Mögliche Funktion
PC251-1	281	48/94	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC251-2	281	48/94	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC251-4	289	18/47	Arabidopsis thaliana	At1g26420	NP_173966	electron carrier (see 397-1)
PC350-1	131	24/32	Oryza sativa		ABF97084	retrotransposon protein, putative, unclassified
PC350-3	146	21/44	Arabidopsis thaliana	At3g09830	NP_187594	ATP binding / kinase/ protein kinase
PC350-4	139	39/45	Arabidopsis thaliana	At5g61840	NP_568941	catalytic
PC577-1	143	41/47	Arabidopsis thaliana	At1g05170	NP_172009	transferase, transferring glycosyl groups
PC577-2	282	42/92	Oryza sativa		XP_466550	unknown protein
PC577-3	371	36/58	Arabidopsis thaliana	At1g35350	NP_174768	unknown protein
PC577-4	229	55/73	Arabidopsis thaliana	At1g28100	NP_973925	unknown protein
PC735-1	201	38/52	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 678-4)
PC735-2	238	34/54	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC735-3	244	25/46	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-16: Liste von Genen, deren Expression durch Pep13- und HrpZ_{PspH}-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession-nummer	Protein/Mögliche Funktion
PC258-1	281	39/59	Arabidopsis thaliana	At3g25250	NP_189162	AGC2-1 (OXIDATIVE SIGNAL-INDUCIBLE1)
PC258-2	212	70/70	Petroselinum crispum		AAA33861	Tyr-DC (Eli 5) (see 312-1)
PC258-3	52					no significant similarity found
PC275-1	281	18/65	Plasmodium chabaudi chabaudi		XP_745411	hypothetical protein
PC275-2	276	38/44	Daucus carota		BAA99575	DC2.15 like protein
PC275-3	276	38/44	Daucus carota		BAA99575	DC2.15 like protein
PC277-1	207	16/50	Treponema denticola ATCC 35405		NP_972102	putative chromosome partition protein SmC
PC277-2	221	41/51	Daucus carota		BAA03413	EDGP precursor (see 566-2)
PC277-3	220					no significant similarity found
PC277-4	209					no significant similarity found
PC278-1	95	25/28	Arabidopsis thaliana	At2g26190	NP_565618	calmodulin binding (see 787-2)
PC278-2	95	25/28	Arabidopsis thaliana	At2g26190	NP_565618	calmodulin binding (see 787-2)
PC278-4	95	25/28	Arabidopsis thaliana	At2g26190	NP_565618	calmodulin binding (see 787-2)
PC278-3	96	27/31	Arabidopsis thaliana	At2g05830	NP_027726	GTP binding / translation initiation factor
PC279-1	54	14/17	Malus x domestica		BAC20170	spermidine synthase (see 446-4)
PC279-3	65					no significant similarity found
PC279-4	56					no significant similarity found
PC324-1	95	24/28	Arabidopsis thaliana	At2g26190	NP_565618	calmodulin binding (see 787-2)
PC324-2	94					no significant similarity found
PC327-1	44					no significant similarity found
PC327-3	44					no significant similarity found
PC327-4	50					no significant similarity found
PC403-1	178	35/50	Arabidopsis thaliana	At3g15530	NP_566517	S-adenosylmethionine-dependent methyltransferase
PC403-2	199	33/49	Zinnia elegans		CA154302	putative peroxidase
PC403-4	173	14/19	Arabidopsis thaliana	At3g15530	NP_566517	S-adenosylmethionine-dependent methyltransferase
PC403-3	173	17/42	Arabidopsis thaliana	AT3G16590	NP_188281	unknown protein
PC404-1	65	15/19	Arabidopsis thaliana	AT3G55840	NP_191143	unknown

PC404-4	69					no significant similarity found
PC404-2	75					no significant similarity found
PC404-3	76					no significant similarity found
PC422-1	54	14/17	Arabidopsis thaliana	At5g01750	NP_850751	unknown protein (see 512-1)
PC422-2	60					no significant similarity found
PC422-4	60					no significant similarity found
PC422-3	64					no significant similarity found
PC434-1	59					no significant similarity found
PC434-2	80	16/27	Arabidopsis thaliana	AT3G28580	NP_189499	ATP binding / ATPase/ nucleoside-triphosphatase
PC434-3	103					no significant similarity found
PC434-4	107	17/33	Arabidopsis thaliana	At5g44800	NP_199293	ATP binding / ATP-dependent helicase/ protein binding / zinc ion binding
PC465-1	62					no significant similarity found
PC465-2	71	19/23	Panax ginseng		BAD15331	cytochrome P450
PC465-3	60					no significant similarity found
PC465-4	56					no significant similarity found
PC471-1	155	37/49	Arabidopsis thaliana	At3g52450	NP_190813	ubiquitin-protein ligase
PC471-2	154	33/44	Malus x domestica		AAF34134	high molecular weight heat shock protein
PC471-3	191	31/61	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 470)
PC471-4	156	37/47	Arabidopsis thaliana	At3g52450	NP_190813	ubiquitin-protein ligase
PC484-1	/					/
PC484-2	177	27/58	Arabidopsis thaliana	AT4G32010	NP_194929	transcription factor similar to VPI/AB13 family regulatory protein
PC518-1	78					no significant similarity found
PC518-2	80					no significant similarity found
PC518-3	79					no significant similarity found
PC518-4	76					no significant similarity found
PC552-1	175	40/55	Arabidopsis thaliana	At1g20780	NP_564125	ubiquitin-protein ligase
PC552-3	175	40/55 (72%)	Arabidopsis thaliana	At1g20780	NP_564125	ubiquitin-protein ligase
PC552-4	175	40/55	Arabidopsis thaliana	At1g20780	NP_564125	ubiquitin-protein ligase
PC552-2	136	18/23	Arabidopsis thaliana	At4g23430	NP_567681	oxidoreductase
PC597-1	211	61/70	Metasequoia glyptostroboides		BAB91474	Rab geranylgeranyl transferase beta subunit
PC597-2	194	26/29	Solanum tuberosum		ABB86256	eukaryotic translation initiation factor 2 beta subunit-like chain
PC597-3	222	59/68	Metasequoia glyptostroboides		BAB91474	Rab geranylgeranyl transferase beta subunit
PC597-4	224	47/47	Lycopersicon esculentum		CAA51679	ubiquitin (see 412-1)
PC604-1	140	19/36	Solanum tuberosum		AAK84008	beta-amylase PCT-BMYI (see 786-2)
PC604-2	138	24/37	Oryza sativa		BAD01246	putative MtN19 (see 628-4)
PC604-3	138					no significant similarity found

PC604-4	136					no significant similarity found
PC614-1	186	23/69	Prunus mume		BAC66626	F-box
PC614-2	153	22/47	Daucus carota		AAB50843	elicitor induced glycoprotein iEP4
PC614-3	153	23/47	Daucus carota		AAB50843	elicitor induced glycoprotein iEP4
PC614-4	153	38/50	Arabidopsis thaliana	AT1G58250	NP_176121	SAB (SABRE)
PC771-1	90	23/29	Arabidopsis thaliana	At3g62980	NP_567135	transport inhibitor response 1 (TIR1), AtFBL1
PC771-2	90	23/29	Arabidopsis thaliana	At3g62980	NP_567135	transport inhibitor response 1 (TIR1), AtFBL2
PC771-4	94					no significant similarity found
PC772-1	80					no significant similarity found
PC772-4	80					no significant similarity found
PC772-2	80					no significant similarity found
PC772-3	87					no significant similarity found

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-17: Liste von Genen, deren Expression durch Pep13- und NLP_{pp}-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession-nummer	Protein/Mögliche Funktion
PC363-2	227	14/36	Rattus norvegicus		CAF33425	similar to SCO-spondin
PC363-3	227	14/36	Rattus norvegicus		CAF33425	similar to SCO-spondin
PC605-1	71					no significant similarity found
PC605-2	71					no significant similarity found
PC605-3	73	20/23	Ipomoea nil		Q96471	S-adenosylmethionine decarboxylase proenzyme
PC605-4	71					no significant similarity found
PC624-1	315	50/69	Oryza sativa		AAM91884	putative receptor-like protein kinase
PC624-2	303	20/24	Petroselinum crispum		P14912	4-coumarate--CoA ligase (4Cl-1)
PC624-4	312	15/20	Arabidopsis thaliana	At5g67080	NP_201509	MAPKKK19 (see 628-1)
PC746-3	88					no significant similarity found
PC746-4	40					no significant similarity found
PC765-1	168	15/34	Arabidopsis thaliana	At2g22660	NP_179851	unknown protein
PC765-2	159					no significant similarity found
PC765-3	161	25/35	Lycopersicon esculentum		CAB08077	pectinesterase
PC765-4	160					no significant similarity found
PC784-1	90	20/27	Lactuca sativa		AAL77102	carbohydrate oxidase
PC784-3	90	22/28	Lactuca sativa		AAL77102	carbohydrate oxidase
PC784-4	90	22/28	Lactuca sativa		AAL77102	carbohydrate oxidase
PC784-2	45					no significant similarity found
PC826-1	235	39/65	Petroselinum crispum		AAA33861	Tyr-DC (see 312-1)
PC826-2	224	54/74	Oryza sativa		AAM97165	putative oxysterol binding protein
PC826-4	236	37/69	Prunus persica		AAQ56728	polygalakturonase inhibiting protein
PC832-1	276	19/26	Arabidopsis thaliana	AT1G18890	NP_564066	ATCDPK1; calcium- and calmodulin-dependent protein kinase
PC832-2	277	19/27	Arabidopsis thaliana	At1g74740	NP_177612	CPK30; calcium- and calmodulin-dependent protein kinase (see 701-2-1)
PC832-3	278	19/27	Arabidopsis thaliana	At1g74740	NP_177612	CPK30; calcium- and calmodulin-dependent protein kinase (see 701-2-1)
PC832-4	276	23/32	Arabidopsis thaliana	At1g74740	NP_177612	CPK30; calcium- and calmodulin-dependent protein kinase (see 701-2-1)

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-18: Liste von Genen, deren Expression durch Pep13- und LPS-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession- nummer	Protein/Mögliche Funktion
PC445-1	46	12/14	Oryza sativa		NP_914653	germin (oxalate oxidase) -like protein
PC445-2	103	25/33	Arabidopsis thaliana	At5g03455	NP_568119	CDC25
PC445-3	147					no significant similarity found
PC445-4	166	43/55	Arabidopsis thaliana	At1g65960	NP_176771	GAD2 (GLUTAMATE DECARBOXYLASE 2) (see 256-3)
PC450-2	115	25/37	Arabidopsis thaliana	At3g12610	NP_187867	DRT100 (DNA-DAMAGE REPAIR/TOLERATION 100)
PC450-3	115	25/37	Arabidopsis thaliana	At3g12610	NP_187867	DRT100 (DNA-DAMAGE REPAIR/TOLERATION 100)
PC450-4	115	25/37	Arabidopsis thaliana	At3g12610	NP_187867	DRT100 (DNA-DAMAGE REPAIR/TOLERATION 100)
PC764-1	175	58/58	Petroselinum crispum		AAB72241	omega-3 fatty acid desaturase (EC 1.14.99.) (see 156-1)
PC764-2	176	37/40	Oryza sativa		BAB78487	26S proteasome regulatory non-ATPase subunit 8
PC764-3	175	27/39	Oryza sativa		BAD01219	putative threonyl-tRNA synthetase
PC764-4	174	13/15	Arabidopsis thaliana	At1g73430	NP_177485	unknown protein (586-1)

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-19: Liste von Genen, deren Expression durch HrpZ_{P_{sph}}- und NLP_{pp}-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession- nummer	Protein/Mögliche Funktion
PC401-1-1	122	22/32	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC401-1-2	132	19/39	Oryza sativa		NP_914902	OSJNBa0052O12.20 (putative reverse transcriptase)
PC401-1-3	76					no significant similarity found
PC401-1-4	76	12/23	Oryza sativa		ABA92487	hypothetical protein LOC_Os11g16310 (ident. mit 401-1-4)
PC401-2-1	76	12/23	Oryza sativa		ABA92487	hypothetical protein LOC_Os11g16310 (ident. mit 401-1-4)
PC401-2-2	76	12/23	Oryza sativa		ABA92487	hypothetical protein LOC_Os11g16310 (ident. mit 401-1-4)
PC401-2-3	76	12/23	Oryza sativa		ABA92487	hypothetical protein LOC_Os11g16310 (ident. mit 401-1-4)
PC401-2-4	92	26/30	Arabidopsis thaliana	At2g21270	NP_565504	unknown protein (see 400-1-3)
PC486-3	87					no significant similarity found
PC651-1	253	56/81	Arabidopsis thaliana	At4g30010	NP_194730	unknown protein (see 625-2)
PC651-2	254	43/70	Catharanthus roseus		AAB05871	PAPS-reductase-like protein (see 481-3)
PC651-3	252	63/70	Oryza sativa		NP_921996	cytoplasmic malate dehydrogenase (see 790-2)
PC651-4	254	50/71	Arabidopsis thaliana	At5g13500	NP_196854	unknown protein
PC790-1	71	19/22	Arabidopsis thaliana	At4g01610	NP_849281	putative cathepsin B-like cysteine protease
PC790-2	229	62/69	Oryza sativa		NP_921996	cytoplasmic malate dehydrogenase (see 651-3)
PC790-3	74					no significant similarity found
PC790-4	71	19/22	Arabidopsis thaliana	At4g01610	NP_849281	putative cathepsin B-like cysteine protease

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-20: Liste von Genen, deren Expression durch NLP_{pp}- und LPS-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession-nummer	Protein/Mögliche Funktion
PC263-1	98	26/32	Arabidopsis thaliana	At1g06840	NP_172169	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC263-2	89	21/29	Arabidopsis thaliana	At1g55900	NP_175986	TIM50
PC263-3	98	15/21	Arabidopsis thaliana	At3g23780	NP_189020	NRPD2a
PC263-4	98	15/21	Arabidopsis thaliana	At3g23780	NP_189020	NRPD2a
PC271-1	274	79/90	Arabidopsis thaliana	At1g48900	NP_564535	7S RNA binding / nucleotide binding signal recognition particle 54KD protein 2 (SRP54)
PC271-2	260					no significant similarity found
PC271-3	22					no significant similarity found
PC271-4	282					no significant similarity found
PC285-1	43					no significant similarity found
PC285-2	128	30/40	Arabidopsis thaliana	At3g17700	NP_566585	CNBT1 (CYCLIC NUCLEOTIDE-BINDING TRANSPORTER 1) (see290-2)
PC292-1	80					no significant similarity found
PC298-2	25					no significant similarity found
PC298-3	270	46/66	Pisum sativum		CAA51820	hydroxymethylbilane synthase (HMBS)
PC309-1	158					no significant similarity found
PC309-4	158					no significant similarity found
PC309-2	168					no significant similarity found
PC329-1	239	45/71	Arabidopsis thaliana	At1g15030	NP_172956	unknown protein
PC329-2	239	22/72	Oryza sativa		AAK27806	putative protein kinase
PC329-4	238	47/79	Arabidopsis thaliana	At1g15030	NP_172956	unknown protein
PC329-3	240	29/53	Arabidopsis thaliana	At3g07740	NP_566317	ADA2A
PC332-1	107					no significant similarity found
PC332-2	104					no significant similarity found
PC332-3	103	26/34	Arabidopsis thaliana	At2g37890	NP_181325	binding / transporter
PC332-4	106					no significant similarity found
PC351-1	239	40/60	Arabidopsis thaliana	At2g32830	NP_180842	PHT5
PC351-2	78	17/25	Arabidopsis thaliana	At4g08850	NP_849538	kinase
PC351-3	237	39/41	Arabidopsis thaliana	At3g47950	NP_190378	AHA4

PC351-4	236	30/49	Arabidopsis thaliana	At2g32830	NP_180842	PHT5
PC358-1	81					no significant similarity found
PC358-2	53					no significant similarity found
PC358-3	118	18/30	Medicago truncatula		ABE88701	Esterase/lipase/thioesterase (see 353-1)
PC358-4	38					no significant similarity found
PC361-1	408	119/135	Arabidopsis thaliana	At1g29880	NP_564337	ATP binding / glycine-tRNA ligase/ tRNA ligase
PC361-2	408	87/138	Arabidopsis thaliana	At1g29880	NP_564337	ATP binding / glycine-tRNA ligase/ tRNA ligase
PC361-3	407	118/135	Arabidopsis thaliana	At1g29880	NP_564337	ATP binding / glycine-tRNA ligase/ tRNA ligase
PC364-2	209	34/39	Daucus carota		BAD04048	pathogenesis-related protein-like protein 2
PC364-3	158	26/52	Arabidopsis thaliana	At1g30760	NP_174363	electron carrier (see255-2-2)
PC364-4	13					-
PC365-1	256	74/85	Arabidopsis thaliana	At2g32980	NP_565760	unknown protein
PC371-1	199	28/81	Arabidopsis thaliana	At1g32690	NP_174546	unknown protein (see 411-1-2)
PC371-3	185					no significant similarity found
PC487-2	89					no significant similarity found
PC491-1	268	13/16	Arabidopsis thaliana	At1g10930	NP_172562	ATSGS1
PC491-2	270	38/49	Arabidopsis thaliana	At5g52590	NP_200072	unknown protein
PC491-3	264	26/42	Arabidopsis thaliana	At2g14120	NP_565362	GTP binding / GTPase
PC539-2	133	15/24	Arabidopsis thaliana	At4g24850	NP_194216	ATP binding / nucleoside-triphosphatase/ nucleotide binding
PC539-3	126					no significant similarity found
PC539-4	131					no significant similarity found
PC557-1	229					no significant similarity found
PC557-2	81	20/26	Arabidopsis thaliana	At3g46430	NP_190227	expressed protein (see 796-3)
PC557-3	368	33/36	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
PC557-4	62					no significant similarity found
PC560-2	269	21/33	Arabidopsis thaliana	At5g35160	NP_198366	transporter
PC560-3	-					no significant similarity found
PC568-1	481	63/116	Arabidopsis thaliana	At1g77280	NP_177852	ATP binding / kinase/ protein kinase/ protein serine/threonine
PC568-2	455	55/107	Malus x domestica		AAP86780	Mal d 1-associated protein
PC568-3	473	64/98	Arabidopsis thaliana	At3g13580	NP_187967	structural constituent of ribosome / transcription regulator
PC576-1	63					no significant similarity found
PC576-2	373	32/80	Arabidopsis thaliana	At5g24740	NP_568451	expressed protein
PC576-3	63					no significant similarity found
PC576-4	376	74/93	Arabidopsis thaliana	At2g39690	NP_181499	unknown protein
PC579-1	187	27/51	Arabidopsis thaliana	At4g16144	NP_680708	unknown protein (see 578-2)
PC579-2	181	45/60	Arabidopsis thaliana	At4g31780	NP_194906	MGD1 (MONOGALACTOSYLDIACYLGLYCEROL SYNTHASE 1)

PC579-3	187	17/39	Arabidopsis thaliana	At1g73760	NP_177517	protein binding / ubiquitin-protein ligase/ zinc ion binding
PC579-4	187	28/51	Arabidopsis thaliana	At4g16144	NP_680708	unknown protein (see 578-2)
PC583-1	323	20/21	Arabidopsis thaliana	At5g17020	NP_197204	XPO1A
PC583-2	323					no significant similarity found
PC583-3	114					no significant similarity found
PC583-4	198	22/65	Rhynchopus sp. ATCC50230		AAQ24864	heat shock protein 70
PC588-1	438	66/76	Solanum tuberosum		AAL07488	G protein beta subunit 2
PC588-2	438	66/76	Solanum tuberosum		AAL07488	G protein beta subunit 2
PC588-3	446	143/148	Apium graveolens		CAA73139	isocitrate dehydrogenase (NADP+)
PC588-4	450	54/104	Arabidopsis thaliana	At1g73950	NP_177535	protein binding / ubiquitin-protein ligase/ zinc ion binding
PC589-1	385	35/54	Arabidopsis thaliana	At2g46225	NP_566067	ABI1L1
PC589-2	233	27/41	Glycine max		BAA77676	acetic chitinase
PC589-4	381	31/31	Petroselinum crispum		AAA98491	peroxidase precursor (see 113-2)
PC593-2	388	21/46	Medicago truncatula		ABE81132	probable transposase - soybean transposon mariner element Soymar1
PC593-3	385	25/74	Medicago truncatula		ABE81132	probable transposase - soybean transposon mariner element Soymar1
PC593-4	390	85/107	Arabidopsis thaliana	At1g08450	NP_563816	CRT3 (CALRETICULIN 3)
PC606-2	637	98/164	Arabidopsis thaliana	At2g32900	NP_565757	ATZW10
PC657-1	301					no significant similarity found
PC657-2	301					no significant similarity found
PC657-3	301					no significant similarity found
PC657-4	346					no significant similarity found
PC665-1-1	243	43/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 664-1-3)
PC665-1-2	201	56/66	Linum usitatissimum		AAB02926	peroxidase (see 722-2)
PC665-1-3	243	42/56	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 664-1-3)
PC665-1-4	243	38/80	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 664-1-3)
PC665-2-1	236					no significant similarity found
PC665-2-2	238	21/38	Corynebacterium efficiens YS314		NP_738153	conserved hypothetical protein (ähnlich 664-1-1) (see 738)
PC665-2-3	196	36/45	Vigna angularis		BAA01950	peroxidase, cationic (ähnlich 665-1-2)
PC665-2-4	238	10/16	Corynebacterium efficiens YS314		NP_738153	conserved hypothetical protein (ähnlich 664-1-1) (see 738)
PC690-1	198	33/33	Petroselinum crispum		CAA34715	Phenylalanine ammonia-lyase 1 (see 240-2)
PC690-2	210	26/38	Petroselinum crispum		AAA33861	Tyr-DC (see 312-1)
PC690-3	237	36/78	Arabidopsis thaliana	At2g03890	NP_565307	inositol or phosphatidylinositol kinase/ phosphotransferase
PC690-4	201	57/66	Linum usitatissimum		AAB02926	peroxidase (see 672-3)
PC749-1	232	53/77	Arabidopsis thaliana	At4g13430	NP_567405	hydro-lyase/ lyase
PC749-4	231	44/61	Arabidopsis thaliana	At4g13430	NP_567405	hydro-lyase/ lyase
PC749-2	117	26/38	Nicotiana tabacum		BAA33810	phi-1 (phosphate-induced) (see 748-4)

PC749-3	230	19/23	Vicia faba		BAB17822	vf 14-3-3 d protein
PC757-4	80					no significant similarity found
PC761-1-1	34					no significant similarity found
PC761-1-2	314	102/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC761-1-3	314	102/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC761-1-4	314	102/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC761-2-1	314	101/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC761-2-2	315	75/76	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC761-2-3	314	101/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC761-2-4	314	98/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC777-1	457	86/103	Arabidopsis thaliana	At1g14040	NP_172857	PHO1-like protein
PC777-2	456	93/113	Arabidopsis thaliana	At1g14040	NP_172857	PHO1-like protein
PC777-3	405	94/107	Pimpinella brachycarpa		AAC61599	protein translation factor SUI1 homolog
PC777-4	262	77/86	Arabidopsis thaliana	At3g62870	NP_191846	60 S ribosomal protein L7A (RPL7aB)
PC778-1	309	34/51	Medicago truncatula		ABE81354	Tyrosine protein kinase, active site
PC778-2	309	35/51	Medicago truncatula		ABE81354	Tyrosine protein kinase, active site
PC778-4	309	35/51	Medicago truncatula		ABE81354	Tyrosine protein kinase, active site
PC778-3	<349	42/74	Arabidopsis thaliana	At5g64400	NP_201245	unknown protein
PC780-1	131	17/38	Oryza sativa		NP_918208	hypothetical protein
PC780-3	131	17/38	Oryza sativa		NP_918208	hypothetical protein
PC780-4	131	16/38	Oryza sativa		NP_918208	hypothetical protein
PC780-2	129					no significant similarity found
PC789-1	476	98/155	Arabidopsis thaliana	At1g15070	NP_172960	unknown protein (F9L1_1)
PC789-2	139					no significant similarity found
PC789-3	71	19/22	Arabidopsis thaliana	At4g01610	NP_849281	putative cathepsin B-like cysteine protease
PC789-4	71	19/22	Arabidopsis thaliana	At4g01610	NP_849281	putative cathepsin B-like cysteine protease
PC797-1	412	96/136	Arabidopsis thaliana	At3g10660	NP_187677	CPK2 (CALMODULIN-DOMAIN PROTEIN KINASE CDPK ISOFORM 2)
PC797-2	408	60/82	Arabidopsis thaliana	At2g38110	NP_181346	ATGPAT6/GPAT6; 1-acylglycerol-3-phosphate O-acyltransferase/ acyltransferase (see 195-1)
PC797-3	412	103/136	Arabidopsis thaliana	At3g10660	NP_187677	CPK2 (CALMODULIN-DOMAIN PROTEIN KINASE CDPK ISOFORM 2)
PC812-1	358	27/75	Quercus suber		CAC87937	PD1-like protein
PC812-2	346	29/38	Nicotiana tabacum		BAB92011	pleiotropic drug resistance (PDR) like protein (see 523-3)
PC812-3	350	47/69	Solanum tuberosum		AAP84703	putative xyloglucanase inhibitor (see 786-1)
PC812-4	356	84/118	Solanum tuberosum		AAP84703	putative xyloglucanase inhibitor (see 786-1)
PC813-1	316	29/45	Arabidopsis thaliana	At3g15395	NP_974322	unknown protein
PC813-2	317	28/35	Arabidopsis thaliana	At1g50200	NP_175439	ALATS (ALANYL-TRNA SYNTHETASE); ATP binding / alanine-tRNA ligase/ nucleic acid binding
PC822-1	555	87/187	Nicotiana benthamiana		ABC61504	AGO4-1 (see 823-4)

PC822-2	555	85/125	Nicotiana benthamiana		ABC61504	AGO4-1 (see 823-4)
PC822-3	566	133/145	Arabidopsis thaliana	At5g01850	NP_195805	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC822-4	564	126/136	Arabidopsis thaliana	At5g01850	NP_195805	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC823-3	555	126/180	Nicotiana benthamiana		ABC61505	AGO4-2 or AGO4-1
PC823-4	554	76/115	Nicotiana benthamiana		ABC61504	AGO4-1
PC824-1	342					no significant similarity found
PC824-2	222	34/38	Petroselinum crispum		S72445	DNA-binding protein WRKY 3
PC824-3	342					no significant similarity found
PC824-4	342	31/85	Oryza sativa		ABA92346	Trypsin family protein, expressed

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-21: Liste von Genen, deren Expression durch Pep13-, HrpZ_{P_{sph}}- und NLP_{P_p}-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession-nummer	Protein/Mögliche Funktion
PC296-1	162					no significant similarity found
PC296-3	171					no significant similarity found
PC340-3	640 ?	15/28	Arabidopsis thaliana	At5g06370	NP_568167	unknown protein (see 630-1-1)
PC428-2	65					no significant similarity found
PC428-3	65					no significant similarity found
PC430-2	53					no significant similarity found (see 429-2)
PC430-4	43					no significant similarity found
PC435-1	76	15/18	Arabidopsis thaliana	At1g15380	NP_563973	lactoylglutathione lyase
PC435-2	87					no significant similarity found
PC435-3	73					no significant similarity found
PC435-4	76	15/18	Arabidopsis thaliana	At1g15380	NP_563973	lactoylglutathione lyase
PC505-2	127	22/36	Arabidopsis thaliana	At5g64750	NP_201280	DNA binding / transcription factor (see 524-1)
PC505-3	127	22/36	Arabidopsis thaliana	At5g64750	NP_201280	DNA binding / transcription factor (see 524-1)
PC505-4	127	22/36	Arabidopsis thaliana	At5g64750	NP_201280	DNA binding / transcription factor (see 524-1)
PC507-1	80					no significant similarity found
PC507-2	80					no significant similarity found
PC526-1	91	23/29	Arabidopsis thaliana	At5g51950	NP_200008	FAD binding / aldehyde-lyase/ oxidoreductase (see 523-4)
PC526-2	76					no significant similarity found
PC526-4	81					no significant similarity found
PC540-1	125					no significant similarity found
PC540-2	125					no significant similarity found
PC540-3	125					no significant similarity found
PC540-4	154					no significant similarity found
PC545-1-1	201	17/19	Arabidopsis thaliana		AAD32929	T17H7.4
PC545-1-4	60	17/19		At2g40140	NP_181543	transcription factor (see 96-1)
PC545-1-2	198					no significant similarity found
PC545-1-3	198					no significant similarity found

PC545-2-1	198					no significant similarity found
PC545-2-3	198					no significant similarity found
PC545-2-4	198					no significant similarity found
PC545-2-2	198	31/45	Arabidopsis thaliana	At2g36690	NP_181207	oxidoreductase
PC559-1	-					no significant similarity found
PC559-4	-					no significant similarity found
PC585-3	249	34/35	Petroselinum crispum		AAA98491	anionic peroxidase (see 589-4)
PC586-1	131	26/35	Arabidopsis thaliana	At1g73430	NP_177485	unknown protein (see 764-4)
PC586-2	128	13/15	Corynebacterium efficiens YS 314		NP_738153	conserved hypothetical protein (ähnlich 664-1-1) (see 738)
PC586-3	131					no significant similarity found
PC586-4	136					no significant similarity found
PC615-1	165					no significant similarity found
PC615-3	165					no significant similarity found
PC615-4	165					no significant similarity found
PC685-1	150	36/49	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 724-3)
PC685-2	243	44/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 687-1)
PC685-3	232	26/34	Arabidopsis thaliana	At1g07810	NP_172259	ECA1; calcium-transporting ATPase
PC685-4	252	45/82	Lotus japonicus		BAD95981	Ser/Thr protein kinase
PC705-1	104	20/35	Craterostigma plantagineum		T09784	homeobox leucine zipper protein Hb-2, dehydration-inducible
PC705-2	104					no significant similarity found
PC705-3	104	17/31	Craterostigma plantagineum		T09784	homeobox leucine zipper protein Hb-2, dehydration-inducible
PC705-4	104	17/31	Craterostigma plantagineum		T09784	homeobox leucine zipper protein Hb-2, dehydration-inducible
PC743-1	225	66/74	Nicotiana tabacum		CAA55641	translation initiation factor eIF-4A.14
PC743-2	225	71/74	Nicotiana tabacum		CAA55641	translation initiation factor eIF-4A.14
PC743-3	227	26/37	Sorghum bicolor		AAL68853	gb protein
PC766-1	157	18/49	Arabidopsis thaliana	At4g04480	NP_192357	unknown protein (see 476-1)
PC825-1	243	17/38	Homo sapiens		NP_056305	S. cerevisiae SEC31-like 2 isoform a
PC825-3	248	27/35	Allium cepa		AAF18998	ATP-sulfurylase
PC825-4	243	17/36	Arabidopsis thaliana	At5g17970	NP_197298	ATP binding / nucleoside-triphosphatase/ nucleotide binding / transmembrane receptor

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-22: Liste von Genen, deren Expression durch Pep13-, HrpZ_{PspH}- und LPS-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession- nummer	Protein/Mögliche Funktion
PC439-1	81	24/26	Arabidopsis thaliana	At3g49430	NP_190512	pre-mRNA splicing factor, putative
PC439-2	81	24/26	Arabidopsis thaliana	At3g49430	NP_190512	pre-mRNA splicing factor, putative
PC439-4	81	24/26	Arabidopsis thaliana	At3g49430	NP_190512	pre-mRNA splicing factor, putative
PC439-3	29					no significant similarity found
PC663-1	273	19/30	Medicago truncatula		ABE87175	hypothetical protein MtrDRAFT_AC151668g16v1
PC663-2	278	20/30	Medicago truncatula		ABE87175	hypothetical protein MtrDRAFT_AC151668g16v1
PC663-3	277	28/45	Arabidopsis thaliana		NP_564096	nucleic acid binding
PC663-4	272	20/30	Medicago truncatula		ABE87175	hypothetical protein MtrDRAFT_AC151668g16v1
PC816-1	193	35/63	Nicotiana langsdorffii x Nicotiana sanderae		AAP30840	nectarin 5
PC816-2	193	35/63	Nicotiana langsdorffii x Nicotiana sanderae		AAP30840	nectarin 5
PC816-3	188	20/28	Arabidopsis thaliana		NP_683304	expressed protein
PC816-4	193	35/63	Nicotiana langsdorffii x Nicotiana sanderae		AAP30840	nectarin 5

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-23: Liste von Genen, deren Expression durch Pep13-, NLP_{pp}- und LPS-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession-nummer	Protein/Mögliche Funktion
PC287-1	325					no significant similarity found
PC287-2	312					no significant similarity found
PC287-3	211	29/59	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC287-4	303	65/87	Petroselinum crispum		AF239832	Eli7.7 (see 197-4)
PC311-2	274					no significant similarity found (see 261-3)
PC311-3	122	28/40	Arabidopsis thaliana	A t3g61580	NP_191717	oxidoreductase/ sphingolipid delta-4 desaturase
PC311-4	212	70/70	Petroselinum crispum		AAA33861	Tyr-DC (Eli5) (see 312-1)
PC312-1	246	72/72	Petroselinum crispum		AAA33861	Tyr-DC (Eli5) (see 311-4)
PC312-2	269	79/89	Arabidopsis thaliana	A t2g01140	NP_178224	fructose-bisphosphate aldolase
PC312-4	248	23/26	Pyrus communis		AAC24001	isoflavone reductase related protein
PC316-1	112					no significant similarity found
PC316-2	114					no significant similarity found
PC316-3	112					no significant similarity found
PC316-4	112					no significant similarity found
PC352-1	172					no significant similarity found
PC352-2	175					no significant similarity found
PC352-3	181	36/36	Petroselinum crispum		AAG23926	Eli 7.5 (see 314-2)
PC352-4	182	24/29	Arabidopsis thaliana	A t5g61790	NP_200987	calcium ion binding
PC355-1	324	61/63	Petroselinum crispum		AAB80696	omega-6 fatty acid desaturase (EC 1.14.99.-) (see 355-3)
PC355-3	324	63/75	Petroselinum crispum		AAB80696	omega-6 fatty acid desaturase (EC 1.14.99.-) (see 355-1)
PC355-2	320	56/56	Arabidopsis thaliana	A t5g12250	NP_196786	TUB6 (BETA-6 TUBULIN)
PC355-4	320	56/56	Arabidopsis thaliana	A t5g12250	NP_196786	TUB6 (BETA-6 TUBULIN)
PC446-2	46	12/14	Oryza sativa		AAC04834	germin-like protein 3 (see 448-2)
PC446-3	44	12/14	Oryza sativa		AAC04834	germin-like protein 3 (see 448-2)
PC446-4	67	15/18	Malus x domestica		BAC20170	spermidine synthase (see 279-1)
PC520-1	198	24/47	Arabidopsis thaliana	A t3g29320	NP_189578	phosphorylase/ transferase, transferring glycosyl groups
PC520-2	246	67/75	Nicotiana tabacum		CAD47830	hydroxy cinnamoyl transferase (see 521-1-2)

PC520-3	98	15/27	Arabidopsis thaliana	A t1g45688	NP_564495	unknown protein
PC520-4	263	42/50	Petroselinum crispum		AAK69402	immediate-early fungal elicitor protein CMPG1, Eli17 (see 334-2)
PC535-1	194	63/64	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
PC535-4	192	37/63	Arabidopsis thaliana	A t1g53280	NP_564626	unknown protein
PC584-1	<320	18/23	Arabidopsis thaliana	A t4g23420	NP_194073	oxidoreductase (see 395-2) (BUT no taq)
PC584-2	<307	18/30	Nicotiana glanca x N. langsdorfii		BAA05475	tumor-related protein (BUT no apo)
PC584-3	<303	33/46	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
PC584-4	<237	16/36	Lotus corniculatus var. Japonicus		CAE45585	coatomer alpha subunit-like protein
PC630-1-1	701	136/174	Arabidopsis thaliana	A t5g06370	NP_568167	unknown protein (see 340-3) (BUT 2x taq)
PC630-1-2	74	17/24	Oryza sativa		XP_474637	OSJNBa0039G19.7 (see 634-1)
PC630-1-3	701	134/174	Arabidopsis thaliana	A t5g06370	NP_568167	unknown protein (see 340-3) (BUT 2x taq)
PC630-2-1	383	99/127	Arabidopsis thaliana	A t3g03050	NP_186955	CSLD3 (CELLULOSE SYNTHASE-LIKE 3)
PC630-2-2	383	103/127	Arabidopsis thaliana	A t3g03050	NP_186955	CSLD3 (CELLULOSE SYNTHASE-LIKE 3)
PC630-2-3	383	103/127	Arabidopsis thaliana	A t3g03050	NP_186955	CSLD3 (CELLULOSE SYNTHASE-LIKE 3)
PC630-2-4	383	102/127	Arabidopsis thaliana	A t3g03050	NP_186955	CSLD3 (CELLULOSE SYNTHASE-LIKE 3)
PC639-1	394	84/115	Arabidopsis thaliana	A t1g45150	NP_175129	unknown protein (BUT no taq)
PC639-2	274	20/52	Leishmania major		CAJ02928	hypothetical protein, conserved (BUT no apo)
PC639-3	322	20/58	Leishmania major		CAJ02928	hypothetical protein, conserved (BUT no taq)
PC639-4	406	49/77	Arabidopsis thaliana	A t1g45150	NP_175129	unknown protein (BUT no taq)
PC701-1-1	44					no significant similarity found
PC701-1-2	325	56/104	Arabidopsis thaliana	A t2g28840	NP_180450	protein binding
PC701-1-4	323	45/61	Arabidopsis thaliana	A t2g28840	NP_180450	protein binding
PC701-2-1	328	75/109	Arabidopsis thaliana	A t1g74740	NP_177612	CPK30; calcium- and calmodulin-dependent protein kinase (see 832-2)
PC701-2-2	130	35/43	Arabidopsis thaliana	A t5g32450	NP_568522	nucleic acid binding (see 709-4)
PC701-2-3	328	75/109	Arabidopsis thaliana	A t1g74740	NP_177612	CPK30; calcium- and calmodulin-dependent protein kinase (see 832-2)
PC701-2-4	159	31/46	Oryza sativa		NP_001064283	putative cinnamyl alcohol dehydrogenase (Os10g0194200) (see 618-2-2)
PC758-1	469	80/145	Arabidopsis thaliana	A t2g01600	AAD12692	binding (see 811-3)
PC758-4	477	85/162	Arabidopsis thaliana	A t2g01600	AAD12692	binding (see 811-3)
PC758-2	314	102/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 759-3)
PC758-3	82					no significant similarity found
PC759-2	31					no significant similarity found
PC759-3	314	102/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC759-4	29					no significant similarity found
PC796-1	174	29/34	Beta procumbens		CAD38520	putative cation transporter
PC796-3	174	33/48	Arabidopsis thaliana	A t3g46430	NP_190227	expressed protein (see 557-2)
PC796-4	231	26/40	Arabidopsis thaliana	A t4g22030	NP_193934	unknown protein (see 793-4)

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-24: Liste von Genen, deren Expression durch HrpZ_{PspH}-, NLP_{Pp}- und LPS-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession- nummer	Protein/Mögliche Funktion
PC303-1	147	36/47		At1g19300	NP_564077	Avr9/Cf-9 rapidly elicited protein 231 (see 315)
PC303-2	144	26/46	Petunia x hybrida		BAC53892	cytochrome P450
PC303-4	144	26/46	Petunia x hybrida		BAC53892	cytochrome P450
PC303-3	134	32/43	Picea mariana		AAC32151	probable 60S ribosomal protein L27a
PC322-1	226	51/73		At5g35960	NP_198445	serine/threonine protein kinase-like
PC322-2	226	51/73		At5g35960	NP_198445	serine/threonine protein kinase-like
PC322-3	226	51/73		At5g35960	NP_198445	serine/threonine protein kinase-like
PC322-4	226	51/73		At5g35960	NP_198445	serine/threonine protein kinase-like
PC331-1	143					no significant similarity found
PC331-2	142					no significant similarity found
PC331-3	141					no significant similarity found
PC331-4	144					no significant similarity found
PC353-1	102	22/33	Medicago truncatula		ABE88701	Esterase/lipase/thioesterase (see 358-3)
PC353-2	102	22/33	Medicago truncatula		ABE88701	Esterase/lipase/thioesterase (see 358-3)
PC353-3	102	22/33	Medicago truncatula		ABE88701	Esterase/lipase/thioesterase (see 358-3)
PC353-4	102	22/33	Medicago truncatula		ABE88701	Esterase/lipase/thioesterase (see 358-3)
PC360-1	80					no significant similarity found
PC360-2	71					no significant similarity found
PC360-3	106	16/22		At3g61980	NP_567123	serine-type endopeptidase inhibitor (see 318-1)
PC385-1	122					no significant similarity found
PC385-2	122					no significant similarity found
PC385-3	123	30/40	Medicago truncatula		ABE83038	Proteinase inhibitor I13, potato inhibitor I
PC385-4	122	29/40	Medicago truncatula		ABE83038	Proteinase inhibitor I13, potato inhibitor I
PC448-1	44	12/14	Oryza sativa		AAC04834	germin-like protein 3 (see 446-2)
PC448-2	44	12/14	Oryza sativa		AAC04834	germin-like protein 3 (see 446-2)
PC448-4	46	12/14	Oryza sativa		AAC04834	germin-like protein 3 (see 446-2)
PC550-1-1	69					no significant similarity found

PC550-1-3	146	15/26		At5g43730	NP_199186	ATP binding
PC550-1-4	123					no significant similarity found
PC550-2-1	122					no significant similarity found
PC550-2-2	122					no significant similarity found
PC550-2-4	122					no significant similarity found
PC550-2-3	144	18/40		At1g12220	NP_172686	RPS5 (RESISTANT TO P. SYRINGAE 5) (similar to 550-1-3)
PC561-2	216	18/29	Forsythia x intermedia		AAF64175	phenylcoumaran benzylic ether reductase homolog F2
PC564-1	271	30/43		At2g28590	NP_180426	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase (see 276-1)
PC564-2	271					no significant similarity found
PC564-3	271	51/66		At4g11600	NP_192897	ATGPX6 (GLUTATHIONE PEROXIDASE 6)
PC564-4	277	37/55		At2g44900	NP_566029	ubiquitin-protein ligase putative arm repeat protein (see 276-4)
PC769-1	228	43/69		At2g46420	NP_566074	unknown protein
PC769-3	110	13/23	Gentiana triflora		BAA93452	acyltransferase homolog
PC769-4	217	43/48	Oryza sativa		NP_922520	hypothetical protein
PC770-1	98	17/32		At2g24180	NP_179995	CYP71B6 (CYTOCHROME P450 71B6); heme binding / iron ion binding / monooxygenase
PC770-2	97	14/20		At4g11410	NP_192880	oxidoreductase (see 782-4)
PC791-1	228	61/69	Oryza sativa		NP_921996	cytoplasmic malate dehydrogenase (see 651-3)
PC791-2	428	75/136		At2g44260	NP_850414	unknown protein
PC791-3	428	76/136		At2g44260	NP_850414	unknown protein
PC791-4	232	49/56	Oryza sativa		NP_921996	cytoplasmic malate dehydrogenase (see 651-3)
PC827-1	224	56/74	Oryza sativa		AAM97165	putative oxysterol binding protein
PC827-3	234	31/50	Medicago truncatula		CAF02075	GDP dissociation inhibitor
PC827-4	150					no significant similarity found
PC829-3	168					no significant similarity found
PC829-4	176	26/57	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 521-1-1)

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-25: Liste von Genen, deren Expression durch Pep13-, HrpZ_{PspH}-, NLP_{pp}- und LPS-Behandlung nach 1 h induziert wird.
cDNA-AFLP-Analyse in Petersilie, Fragmente pc251-pc837.

Klon	Länge [bp]	BlastX [AS/AS]	Organismus	AGI Code	Accession-nummer	Protein/Mögliche Funktion
PC252-1	98	20/32	Arabidopsis thaliana	A t2 g29110	NP_180475	ATGLR2.8
PC252-2	98	20/32	Arabidopsis thaliana	A t2 g29110	NP_180475	ATGLR2.8
PC252-3	92					no significant similarity found
PC252-4	91					no significant similarity found
PC253-1	277	46/65	Paracoccus denitrificans		ZP_00630616	conserved hypothetical protein (see 664-2-3)
PC253-2	283	18/21	Arabidopsis thaliana	At5g47570	NP_568684	unknown protein
PC253-3	283	18/21	Arabidopsis thaliana	At5g47570	NP_568684	unknown protein
PC253-4	283	18/21	Arabidopsis thaliana	At5g47570	NP_568684	unknown protein
PC262-1	212	29/34	Arabidopsis thaliana	A t4 g24190	NP_974606	SHD (SHEPHERD)
PC262-2	208					no significant similarity found
PC262-3	203	48/52	Arabidopsis thaliana	At2g01350	NP_565259	nicotinate-nucleotide diphosphorylase (carboxylating)
PC262-4	206	34/68	Oryza sativa		BAC79712	Putative NADPH HC toxin reductase
PC265-1	287	20/39	Arabidopsis thaliana	A t4 g39830	NP_195693	copper ion binding
PC265-2	277	19/22	Arabidopsis thaliana	At4g19640	NP_193699	ARA7
PC265-3	290	32/33	Arabidopsis thaliana	A t2 g18740	NP_179464	unknown protein
PC265-4	273	13/26	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 347-2)
PC274-1	82					no significant similarity found
PC274-2	82					no significant similarity found
PC274-3	82					no significant similarity found
PC274-4	82					no significant similarity found
PC280-1	281	86/93	Arabidopsis thaliana	At2g46020	NP_182126	ATP binding / ATP-dependent helicase/ DNA binding / helicase/ nucleic acid binding / transcription regulator
PC280-2	280	87/93	Arabidopsis thaliana	At2g46020	NP_182126	ATP binding / ATP-dependent helicase/ DNA binding / helicase/ nucleic acid binding / transcription regulator
PC280-3	212	70/70	Petroselinum crispum		AAA33861	Tyr-DC (Eli 5) (see 312-1)
PC280-4	282	18/51	Arabidopsis thaliana	At5g23570	NP_197747	SGS3 (SUPPRESSOR OF GENE SILENCING 3) (see 178-2)
PC281-1	122					no significant similarity found
PC281-2	122					no significant similarity found
PC281-4	122					no significant similarity found

PC288-1	278					no significant similarity found
PC288-2	272	47/61	Arabidopsis thaliana	A t2 g28310	NP_850118	unknown protein
PC288-3	278					no significant similarity found
PC288-4	271	79/89	Oryza sativa		NP_915679	putative ammonium transporter
PC291-2	115					no significant similarity found
PC291-3	112					no significant similarity found
PC291-4	112					no significant similarity found
PC300-1	210	40/61	Arabidopsis thaliana	At2g02960	NP_178396	protein binding / ubiquitin-protein ligase/ zinc ion binding (see 569-1)
PC300-2	153	30/47	Arabidopsis thaliana	A t3 g62260	NP_191785	catalytic/ protein phosphatase type 2C (see 569-2)
PC300-3	211	29/59	Arabidopsis thaliana	At1g30760	NP_174363	electron carrier (see364-3)
PC300-4	269	38/73	Arabidopsis thaliana	At3g14650	NP_188083	CYP72A11; heme binding / iron ion binding / monooxygenase/ oxygen binding (BUT no apo)
PC301-1	210	52/57	Arabidopsis thaliana	At1g31930	NP_174475	extra-large guanine nucleotide binding protein, putative
PC301-2	213	14/21	Arabidopsis thaliana	A t5 g43580	NP_199171	serine-type endopeptidase inhibitor (see 266-3)
PC301-4	213	51/26	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 372-3)
PC310-1	301	43/85	Arabidopsis thaliana	A t1 g72310	NP_177375	ATL3
PC310-2	271	68/69	Petroselinum crispum		AAA33861	Tyrosin-Decarboxylase (see 312-1)
PC310-3	280	49/88	Arabidopsis thaliana	At1g26420	NP_173966	electron carrier (see 432-3)
PC310-4	299	53/98	Arabidopsis thaliana	At1g26420	NP_173966	electron carrier (see 432-3)
PC314-1	129					no significant similarity found
PC314-2	179	59/59	Petroselinum crispum		AAG23926	Eli 7.5 (see 352-3)
PC314-3	177					no significant similarity found
PC317-1	107					no significant similarity found
PC317-2	107					no significant similarity found
PC317-3	107					no significant similarity found
PC317-4	116					no significant similarity found
PC319-1	82					no significant similarity found
PC319-2	83					no significant similarity found
PC319-3	99					no significant similarity found (see 317-4)
PC320-2	16					no significant similarity found
PC320-3	135	17/43	Arabidopsis thaliana	At5g23570	NP_197747	SGS3 (SUPPRESSOR OF GENE SILENCING 3) (see 178-2)
PC320-4	16					no significant similarity found
PC323-1	152	37/49	Arabidopsis thaliana	At3g57400	NP_191299	unknown protein
PC323-2	154	19/21	Arabidopsis thaliana	A t2 g05710	NP_178634	RNA binding / aconitate hydratase/ hydro-lyase/ iron ion binding / lyase
PC323-3	153					no significant similarity found
PC323-4	152	37/49	Arabidopsis thaliana	At3g57400	NP_191299	unknown protein
PC326-1	235					no significant similarity found

PC326-2	196	52/65	Arabidopsis thaliana	A t5 g23720	NP_851066	PHS1 (PROPYZAMIDE-HYPERSENSITIVE 1)
PC326-3	199	41/64	Nicotiana tabacum		AAD47832	cytochrome P450 (see 454-3)
PC328-1	250	58/73	Arabidopsis thaliana	At5g66140	NP_201415	PAD2
PC328-2	257	39/74	Arabidopsis thaliana	At5g66140	NP_201415	PAD2
PC328-3	250	39/52	Arabidopsis thaliana	At5g66140	NP_201415	PAD2
PC328-4	262					no significant similarity found
PC330-1	205	48/68	Arabidopsis thaliana	At4g37120	NP_568017	SMP2
PC330-2	205	48/68	Arabidopsis thaliana	At4g37120	NP_568017	SMP2
PC330-3	205	48/68	Arabidopsis thaliana	At4g37120	NP_568017	SMP2
PC330-4	197					no significant similarity found
PC333-1	78					no significant similarity found
PC333-2	77					no significant similarity found
PC333-3	77					no significant similarity found
PC334-1	328	42/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 664-2-3)
PC334-2	327	42/56	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 664-2-3)
PC334-4	328	46/50	Petroselinum crispum		AAK69402	immediate-early fungal elicitor protein CMPG1, Eli17 (see 243-2)
PC335-1	140	20/21	Glomus mosseae		CAB96869	ubiquitin
PC335-2	130					no significant similarity found
PC335-3	139	42/46	Lactuca sativa		AAP14019	putative ACC-synthase 1
PC335-4	130					no significant similarity found
PC336-1-1	340	100/113	Arabidopsis thaliana	At5g01960	NP_568096	protein binding / ubiquitin-protein ligase/ zinc ion binding (see 628-3)
PC336-1-2	140	17/35	Arabidopsis thaliana	At4g31880	NP_194916	unknown protein
PC336-1-3	268					no significant similarity found
PC336-1-4	340	101/113	Arabidopsis thaliana	At5g01960	NP_568096	protein binding / ubiquitin-protein ligase/ zinc ion binding (see 628-3)
PC336-2-1	241	22/61	Arabidopsis thaliana	At3g62650	NP_191824	unknown protein
PC336-2-2	241	23/61	Arabidopsis thaliana	At3g62650	NP_191824	unknown protein
PC336-2-3	236	23/72	Oryza sativa		AAN04190	putative hydroxyproline-rich glycoprotein
PC336-2-4	241	23/61	Arabidopsis thaliana	At3g62650	NP_191824	unknown protein
PC347-1	376	107/123	Arabidopsis thaliana	At1g70290	NP_177186	ATTPS8
PC347-2	380	51/113	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 796-4)
PC347-3	376	89/113	Daucus carota		BAA03413	EDGP precursor (see 763-4)
PC347-4	376	110/123	Arabidopsis thaliana	At1g70290	NP_177186	trehalose-phosphate synthase [UDP-forming]
PC348-1	325	50/111	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 796-4)
PC348-2	325	52/111	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 796-4)
PC348-3	326	35/71	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 796-4)
PC348-4	326	44/103	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 796-4)

PC349-1	208	19/59	Arabidopsis thaliana	At4g27290	NP_194459	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding (see 654)
PC349-2	210	17/35	Arabidopsis thaliana	At4g27290	NP_194459	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding (see 654)
PC349-3	211	31/63	Arabidopsis thaliana	At4g27290	NP_194459	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding (see 654)
PC349-4	210	23/59	Arabidopsis thaliana	At4g27290	NP_194459	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding (see 654)
PC354-1	42					no significant similarity found
PC354-2	40					no significant similarity found
PC354-3	41					no significant similarity found
PC354-4	41					no significant similarity found
PC356-1	305	50/61	Arabidopsis thaliana	At1g61580	NP_176352	ARP2/RPL3B
PC356-2	324	32/57	Arabidopsis thaliana	A t5 g41790	NP_198994	CIP1 (COP1-INTERACTIVE PROTEIN 1)
PC356-3	113	37/37	Arabidopsis thaliana	At5g03240	NP_851029	UBQ3 (POLYUBIQUITIN 3)
PC356-4	113	37/37	Arabidopsis thaliana	At5g03240	NP_851029	UBQ3 (POLYUBIQUITIN 3)
PC357-1	262	40/66	Populus alba		BAE16616	peroxidase
PC357-2	277					no significant similarity found
PC357-3	262	41/62	Populus alba		BAE16616	peroxidase
PC357-4	263	59/79	Populus alba		BAE16616	peroxidase
PC362-1	358	28/39	Arabidopsis thaliana	At1g22360	NP_173653	AT2 (see 489-1)
PC362-2	177	23/47	Arabidopsis thaliana	At4g15610	NP_567472	unknown protein
PC362-3	90	22/29	Arabidopsis thaliana	A t5 g67250	NP_569047	SKIP2 (SKP1 INTERACTING PARTNER 2)
PC362-4	315					no significant similarity found
PC367-3	435	67/132	Arabidopsis thaliana	A t2 g35980	NP_181142	YLS9 (YELLOW-LEAF-SPECIFIC GENE 9)
PC367-4	436	67/132	Arabidopsis thaliana	A t2 g35980	NP_181142	YLS9 (YELLOW-LEAF-SPECIFIC GENE 9)
PC368-2-1	243	64/67	Arabidopsis thaliana	A t4 g31700	NP_194898	RPS6 (RIBOSOMAL PROTEIN S6) (see 369-2)
PC368-2-2	243	63/67	Arabidopsis thaliana	A t4 g31700		RPS6 (RIBOSOMAL PROTEIN S6) (see 369-2)
PC368-2-3	243	61/67	Arabidopsis thaliana	A t4 g31700	NP_194898	RPS6 (RIBOSOMAL PROTEIN S6) (see 369-2)
PC368-2-4	244	71/80	Arabidopsis thaliana	A t4 g31700	NP_194898	RPS6 (RIBOSOMAL PROTEIN S6) (see 369-2)
PC372-2	295	32/39	Arabidopsis thaliana	At2g26600	NP_565627	hydrolase, hydrolyzing O-glycosyl compounds
PC372-3	243	26/67	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 375-1)
PC372-4	292	49/79	Nicotiana tabacum		NP_196153	peroxidase (see 107-1-4)
PC373-1	70					no significant similarity found
PC373-2	256	38/66	Arabidopsis thaliana	A t4 g00400	NP_191950	acyltransferase
PC373-3	278	53/92	Arabidopsis thaliana	At1g50200	NP_175439	ALATS (ALANYL-TRNA SYNTHETASE)
PC373-4	279	52/83	Arabidopsis thaliana	At1g50200	NP_175439	ALATS (ALANYL-TRNA SYNTHETASE)
PC375-1	244	71/80	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 638-3)
PC375-2	244	71/80	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 638-3)
PC375-4	244	71/80	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 638-3)

PC381-2	194	21/69	Shewanella oneidensis MR 1		NP_717426	conserved hypothetical protein
PC381-3	191					no significant similarity found
PC381-4	194	39/69	Arabidopsis thaliana	At2g46900	NP_566090	unknown protein
PC383-1	220					no significant similarity found
PC383-2	216					no significant similarity found
PC383-3	220					no significant similarity found
PC383-4	220					no significant similarity found
PC386-1	199					no significant similarity found
PC386-2	197	58/65	Arabidopsis thaliana	At2g44120	NP_850410	structural constituent of ribosome / transcription regulator
PC386-3	199					no significant similarity found
PC386-4	199					no significant similarity found
PC388-1	184					no significant similarity found
PC388-2	148					no significant similarity found
PC388-3	157	23/51	Arabidopsis thaliana	At2g35930	NP_181137	ubiquitin-protein ligase (see 177-3)
PC388-4	185					no significant similarity found
PC389-1	95	30/30	Petroselinum crispum		AAG35658	WRKY4 (see 508-4)
PC389-2	94	30/30	Petroselinum crispum		AAG35658	WRKY4 (see 508-4)
PC389-3	94	30/30	Petroselinum crispum		AAG35658	WRKY4 (see 508-4)
PC390-1	232	32/74	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC390-4	27					no significant similarity found
PC397-1	122	22/32	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 748-2)
PC397-2	125	28/35	Arabidopsis thaliana	At2g30440	AAB63091	putative signal peptidase I
PC397-3	122	22/32	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 748-2)
PC397-4	125	28/35	Arabidopsis thaliana	At2g30440	AAB63091	putative signal peptidase I
PC413-1	300	94/99	Daucus carota		BAD16685	plasma membrane H ⁺ -ATPase
PC413-2	300	94/99	Daucus carota		BAD16685	plasma membrane H ⁺ -ATPase
PC413-3	300	94/99	Daucus carota		BAD16685	plasma membrane H ⁺ -ATPase
PC413-4	300	94/99	Daucus carota		BAD16685	plasma membrane H ⁺ -ATPase
PC414-1-1	266	34/70	Arabidopsis thaliana	At2g05080	NP_178583	putative helicase (see 414-2-1)
PC414-1-2	268	54/68	Arabidopsis thaliana	A t5 g39610	NP_198777	ANAC092; transcription factor
PC414-1-3	266	34/70	Arabidopsis thaliana	At2g05080	NP_178583	putative helicase (see 414-2-1)
PC414-1-4	269	74/89	Arabidopsis thaliana	A t5 g39610	NP_198777	ANAC092; transcription factor
PC414-2-1	265	34/70	Arabidopsis thaliana	At2g05080	NP_178583	putative helicase (see 414-1-1)
PC414-2-2	139	35/44	Arabidopsis thaliana	A t5 g10960	NP_196657	ribonuclease/ transcriptional repressor (see 416-1)
PC414-2-3	139	35/44	Arabidopsis thaliana	A t5 g10960	NP_196657	ribonuclease/ transcriptional repressor (see 416-1)
PC414-2-4	70	18/22	Oryza sativa		BAD82381	putative S-receptor kinase (see 412-3)

PC416-1	139	35/44	Arabidopsis thaliana	A t5 g10960	NP_196657	ribonuclease/ transcriptional repressor (see 414-2)
PC416-2	139	35/44	Arabidopsis thaliana	A t5 g10960	NP_196657	ribonuclease/ transcriptional repressor (see 414-2)
PC416-3	139	35/44	Arabidopsis thaliana	A t5 g10960	NP_196657	ribonuclease/ transcriptional repressor (see 414-2)
PC417-1	107	15/20	Arabidopsis thaliana	At1g23740	NP_173786	oxidoreductase/ zinc ion binding (see 210-3)
PC417-2	107					no significant similarity found
PC417-3	142	28/46	Oryza sativa		AAN39049	putative phosphate transporter OsPT8
PC417-4	109	22/41	Arabidopsis thaliana	At5g01820	NP_195802	ATSR1 (SERINE/THREONINE PROTEIN KINASE 1)
PC418-1	69					no significant similarity found
PC418-2	68					no significant similarity found
PC418-3	69					no significant similarity found
PC418-4	69					no significant similarity found
PC420-1	77					no significant similarity found
PC420-2	81					no significant similarity found
PC420-3	77					no significant similarity found
PC420-4	77					no significant similarity found
PC427-1	98					no significant similarity found
PC427-2	97					no significant similarity found
PC427-3	97					no significant similarity found
PC427-4	96					no significant similarity found
PC429-2	53					no significant similarity found
PC429-3	52					no significant similarity found
PC429-4	52					no significant similarity found
PC431-1	290	33/118	Arabidopsis thaliana	At1g19180	NP_564075	unknown protein
PC431-2	290	35/118	Arabidopsis thaliana	At1g19180	NP_564075	unknown protein
PC431-3	290	35/118	Arabidopsis thaliana	At1g19180	NP_564075	unknown protein
PC431-4	292	33/118	Arabidopsis thaliana	At1g19180	NP_564075	unknown protein
PC432-2	83	24/27	Arabidopsis thaliana	At5g40010	NP_198817	ATP binding / ATPase/ nucleoside-triphosphatase/ nucleotide binding
PC432-3	119	20/39	Arabidopsis thaliana	At1g26420	NP_173966	electron carrier (see 310-3)
PC432-4	225	57/74	Arabidopsis thaliana	A t5 g61780	NP_200986	nuclease/ nucleic acid binding
PC433-1	187	13/37	Apis mellifera		XP_624744	PREDICTED: similar to dysfusion CG32474-PA
PC433-2	187	13/37	Apis mellifera		XP_624744	PREDICTED: similar to dysfusion CG32474-PA
PC433-3	187	13/37	Apis mellifera		XP_624744	PREDICTED: similar to dysfusion CG32474-PA
PC442-1	47					no significant similarity found
PC442-2	44					no significant similarity found
PC442-4	47					no significant similarity found
PC451-1	358	43/77	Arabidopsis thaliana	At2g32850	NP_850199	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

PC451-3	130	19/42	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC452-1	217	47/66	Arabidopsis thaliana	At1g34340	NP_174694	catalytic
PC452-2	219	47/66	Arabidopsis thaliana	At1g34340	NP_174694	catalytic
PC452-3	216	27/46	Arabidopsis thaliana	At1g34340	NP_174694	catalytic
PC452-4	218	47/66	Arabidopsis thaliana	At1g34340	NP_174694	catalytic
PC453-1	154	31/50	Arabidopsis thaliana	At1g24620	NP_173866	calcium ion binding
PC453-2	158	25/44	Arabidopsis thaliana	At2g28650	NP_180433	protein binding
PC453-3	158	25/44	Arabidopsis thaliana	At2g28650	NP_180433	protein binding
PC454-1	75	18/21	Arabidopsis thaliana	At2g47610	NP_182283	structural constituent of ribosome
PC454-2	107	13/19	Arabidopsis thaliana	At3g27080	NP_189344	TOM20-3
PC454-3	129	18/40	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC455-1	260					no significant similarity found
PC455-2	254	24/58	Arabidopsis thaliana	At5g40720	NP_198888	unknown protein (see 456-1)
PC455-3	256					no significant similarity found
PC456-1	255	28/82	Arabidopsis thaliana	At5g40720	NP_198888	unknown protein (see 455-2)
PC456-3	257	18/31	Arabidopsis thaliana	At5g01710	NP_195791	unknown protein
PC456-4	255	30/82	Arabidopsis thaliana	At5g40720	NP_198888	unknown protein (see 455-2)
PC457-2	210					no significant similarity found
PC457-3	199	52/68	Arabidopsis thaliana	A t2 g27600	NP_180328	ATP binding / nucleoside-triphosphatase/ nucleotide binding
PC458-1	136					no significant similarity found
PC458-2	137	24/38	Arabidopsis thaliana	A t3 g58480	NP_191407	calmodulin binding
PC458-3	134	24/38	Arabidopsis thaliana	A t3 g58480	NP_191407	calmodulin binding
PC458-4	137	24/38	Arabidopsis thaliana	A t3 g58480	NP_191407	calmodulin binding
PC459-1	188	16/47	Caenorhabditis briggsae		CAE59408	Hypothetical protein CBG02772
PC459-2	188	16/47	Caenorhabditis briggsae		CAE59408	Hypothetical protein CBG02772
PC459-3	188	16/47	Caenorhabditis briggsae		CAE59408	Hypothetical protein CBG02772
PC459-4	187	16/47	Caenorhabditis briggsae		CAE59408	Hypothetical protein CBG02772
PC461-1	147	22/28	Arabidopsis thaliana	At2g02960	NP_178396	protein binding / ubiquitin-protein ligase/ zinc ion binding(see 569-1)
PC461-2	139	24/37	Arabidopsis thaliana	At3g06250	NP_566278	unknown protein
PC461-3	120	29/33	Arabidopsis thaliana	At1g62020	NP_176393	protein transporter/ transporter
PC461-4	131	20/35	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 470-1)
PC462-1	119	26/38	Oryza sativa		AAG13620	putative glutamyl-tRNA reductase
PC462-2	127					no significant similarity found
PC464-1	67	17/21	Panax ginseng		BAD15331	cytochrome P450
PC464-2	67	17/21	Panax ginseng		BAD15331	cytochrome P450
PC464-3	67	17/21	Panax ginseng		BAD15331	cytochrome P450

PC464-4	67	17/21	Panax ginseng		BAD15331	cytochrome P450
PC468-1	72					no significant similarity found
PC468-2	72					no significant similarity found
PC468-3	72					no significant similarity found
PC469-1	259					no significant similarity found
PC472-1	166					no significant similarity found
PC472-2	135					no significant similarity found
PC472-3	191	31/61	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 470)
PC472-4	137	18/24	Arabidopsis thaliana	At1g19940	NP_173423	hydrolase, hydrolyzing O-glycosyl compounds
PC473-1	217	30/37	Petroselinum crispum		AAA98491	anionic peroxidase (see 261-1)
PC473-2	260	14/33	Oryza sativa		AAO72375	putative RNA helicase (see 1-2)
PC474-1	65					no significant similarity found
PC474-3	67	16/21	Arabidopsis thaliana	At3g51680	NP_190736	oxidoreductase
PC474-4	65					no significant similarity found
PC475-1	20					no significant similarity found
PC475-3	79					no significant similarity found
PC475-4	19					no significant similarity found
PC476-1	409	61/133	Arabidopsis thaliana	At4g04480	NP_192357	unknown protein (see 766-1)
PC476-2	165					no significant similarity found
PC476-3	164					no significant similarity found
PC476-4	165					no significant similarity found
PC477-1	271	29/41	Arabidopsis thaliana	At5g23040	NP_197695	unknown protein
PC477-2	165					no significant similarity found
PC477-3	262	37/50	Arabidopsis thaliana	At2g36380	NP_181179	ATPase, coupled to transmembrane movement of substances
PC477-4	165					no significant similarity found
PC478-1	252					no significant similarity found
PC478-2	252	19/33	Glycine max		AAX56086	homogentisate phytylprenyltransferase
PC478-3	237	51/78	Nicotiana plumbaginifolia		CAC40990	ABC 1 protein
PC478-4	252	19/33	Glycine max		AAX56086	homogentisate phytylprenyltransferase
PC481-1	45					no significant similarity found
PC481-2	396	59/92	Daucus carota		BAA03413	EDGP precursor (see 763-4)
PC481-3	259	68/85	Catharanthus roseus		AAB05871	PAPS-reductase-like protein (see 651-2)
PC481-4	440	59/93	Daucus carota		BAA03413	EDGP precursor (see 763-4)
PC482-1	332	42/55	Arabidopsis thaliana	At4g18670	NP_193602	protein binding (BUT no apo)
PC482-2	340	30/67	Arabidopsis thaliana	At4g33920	NP_195118	catalytic/ protein phosphatase type 2C (BUT no apo)
PC482-3	285					no significant similarity found (BUT no apo)

PC482-4	45					no significant similarity found
PC488-2	257					no significant similarity found
PC488-3	416	26/65	Arabidopsis thaliana	At5g40720	NP_198888	unknown protein (see 456-4)
PC488-4	231	29/70	Arabidopsis thaliana	At1g22360	NP_173653	AT2 (see 362-1)
PC489-1	229	39/73	Arabidopsis thaliana	At1g22360	NP_173653	AT2 (see 488-4)
PC489-2	289	25/52	Daucus carota		AAA98927	EP4b
PC489-3	285	34/73	Glycine max		AAN12272	subtilisin-like protein C1 (see 608-1)
PC489-4	285	82/94	Arabidopsis thaliana	At3g62860	NP_191845	catalytic/ hydrolase (see 608-4)
PC494-1	153	19/19	Oryza sativa		AAX95352	dnaK-type molecular chaperone hsp70
PC494-2	158					no significant similarity found
PC494-3	153	20/33	Oryza sativa		AAX95352	dnaK-type molecular chaperone hsp70
PC495-1	112	22/31	Oryza sativa		AAM90696	S-locus receptor-like kinase RLK 11
PC495-2	112	23/32	Oryza sativa		AAM90696	S-locus receptor-like kinase RLK 11
PC495-3	114					no significant similarity found
PC495-4	112	20/31	Oryza sativa		AAM90696	S-locus receptor-like kinase RLK 11
PC496-1	246	11/23	Arabidopsis thaliana	At4g13830	NP_193119	J20 (DNAJ-LIKE 20)
PC496-3	246	11/23	Arabidopsis thaliana	At4g13830	NP_193119	J20 (DNAJ-LIKE 20)
PC496-4	248	11/23	Arabidopsis thaliana	At4g13830	NP_193119	J20 (DNAJ-LIKE 20)
PC497-1	130	21/42	Arabidopsis thaliana	At3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC497-2	130	21/42	Arabidopsis thaliana	At3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC497-3	131	21/42	Arabidopsis thaliana	At3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC497-4	129	21/42	Arabidopsis thaliana	At3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC499-1	94	27/31	Solanum tuberosum		CAA81749	l-aminocyclopropane-l-carboxylate synthase
PC499-2	94	27/31	Solanum tuberosum		CAA81749	l-aminocyclopropane-l-carboxylate synthase
PC499-3	94	27/31	Solanum tuberosum		CAA81749	l-aminocyclopropane-l-carboxylate synthase
PC499-4	94	27/31	Solanum tuberosum		CAA81749	l-aminocyclopropane-l-carboxylate synthase
PC500-1	92	15/30	Oryza sativa		AAT38097	putative pectinesterase
PC500-2	100	28/33	Arabidopsis thaliana	At4g13350	NP_193071	unknown protein
PC500-3	100	28/33	Arabidopsis thaliana	At4g13350	NP_193071	unknown protein
PC500-4	73	20/21	Arabidopsis thaliana	At3g27380	NP_189374	SDH2-1
PC501-1	263	43/50	Petroselinum crispum		AAK69402	immediate-early fungal elicitor protein CMPG1, Eli17 (see 334-4)
PC501-2	263	43/50	Petroselinum crispum		AAK69402	immediate-early fungal elicitor protein CMPG1, Eli17 (see 334-4)
PC501-3	263	43/50	Petroselinum crispum		AAK69402	immediate-early fungal elicitor protein CMPG1, Eli17 (see 334-4)
PC501-4	263	43/50	Petroselinum crispum		AAK69402	immediate-early fungal elicitor protein CMPG1, Eli17 (see 334-4)
PC502-1	175	39/58	Arabidopsis thaliana	At4g34150	NP_567956	rhodopsin-like receptor
PC502-2	169	43/52	Arabidopsis thaliana	At1g13290	NP_172787	transcription factor

PC502-3	168	28/60	Arabidopsis thaliana	At3g55980	NP_567030	transcription factor (see 503-1)
PC503-1	170	17/23	Arabidopsis thaliana	At3g55980	NP_567030	transcription factor (see 502-3)
PC503-2	168	29/60	Arabidopsis thaliana	At3g55980	NP_567030	transcription factor (see 502-3)
PC503-4	168	29/60	Arabidopsis thaliana	At3g55980	NP_567030	transcription factor (see 502-3)
PC504-2	150					no significant similarity found
PC504-3	150	30/49	Arabidopsis thaliana	At1g55350	NP_850966	DEK1
PC508-1	381	53/102	Arabidopsis thaliana	At3g48090	NP_190392	EDS1 (ENHANCED DISEASE SUSCEPTIBILITY 1)
PC508-2	260	69/77	Nicotiana tabacum		CAD47830	hydroxy cinnamoyl transferase (see 521-1-2)
PC508-3	269	28/42	Arabidopsis thaliana	At1g70480	NP_564989	expressed protein
PC508-4	252	29/37	Petroselinum crispum		AAG35658	WRKY4 (see 389-1)
PC509-1	81					no significant similarity found
PC509-2	87	24/28	Arabidopsis thaliana	At1g57720	NP_176084	translation elongation factor (see 533-2-3)
PC509-3	87	24/28	Arabidopsis thaliana	At1g57720	NP_176084	translation elongation factor (see 533-2-3)
PC509-4	97					no significant similarity found
PC510-1	72					no significant similarity found
PC510-2	73					no significant similarity found
PC510-3	81	18/27	Arabidopsis thaliana	At4g23030	NP_194034	antiporter/ drug transporter/ transporter
PC510-4	81	18/27	Arabidopsis thaliana	At4g23030	NP_194034	antiporter/ drug transporter/ transporter
PC512-1	89	13/27	Arabidopsis thaliana	At5g01750	NP_850751	unknown protein (see 422-1)
PC512-2	90	16/29	Arabidopsis thaliana	At5g01750	NP_850751	unknown protein (see 422-1)
PC512-3	90	16/29	Arabidopsis thaliana	At5g01750	NP_850751	unknown protein (see 422-1)
PC512-4	91	16/29	Arabidopsis thaliana	At4g21390	NP_193870	ATP binding / protein kinase/ protein serine/threonine kinase/protein-tyrosine kinase/ sugar binding
PC513-1	287	17/40	Arabidopsis thaliana	At2g42760	NP_181804	unknown protein
PC513-2	282	13/24	Arabidopsis thaliana	At2g42760	NP_181804	unknown protein
PC513-3	287	17/40	Arabidopsis thaliana	At2g42760	NP_181804	unknown protein
PC513-4	286	28/55	Arabidopsis thaliana	At2g42760	NP_181804	unknown protein
PC514-1	228	57/58	Arabidopsis thaliana	At4g18710	NP_193606	BIN2 (BRASSINOSTEROID-INSENSITIVE 2)
PC514-2	217	21/34	Arabidopsis thaliana	At1g74790	NP_177617	unknown protein
PC514-3	243	18/20	Petroselinum crispum		AAK69402	immediate-early fungal elicitor protein CMPG1, Eli17 (see 334-4)
PC514-4	160					no significant similarity found
PC515-1	167	30/44	Arabidopsis thaliana	At5g38200	NP_568556	unknown protein
PC515-2	162	18/30	Arabidopsis thaliana	At2g47680	NP_182290	ATP binding / ATP-dependent helicase/ helicase/ nucleic acid binding
PC515-3	170	31/47	Arabidopsis thaliana	At5g38200	NP_568556	unknown protein
PC516-1	174	17/29(58)	Arabidopsis thaliana	At1g30700	NP_174357	electron carrier (see 707-4)
PC516-2	128	25/26	Daucus carota		BAD16688	plasma membrane H ⁺ -ATPase
PC516-3	121	36/42	Drosophila melanogaster		NP_476964	ribosomal protein S18

PC516-4	129	41/42	Daucus carota		BAD16688	plasma membrane H ⁺ -ATPase
PC519-1-1	366	17/30	Arabidopsis thaliana	At2g36220	NP_565838	unknown protein
PC519-1-3	376	30/65	Arabidopsis thaliana	At2g23740	NP_179954	nucleic acid binding / transcription factor/ zinc ion binding
PC519-1-4	354	23/70	Verminephrobacter eiseniae EF01 2		EAT71611	glycosyl transferase, family 2
PC519-2-1	251	21/46	Oryza sativa		BAD24983	putative uclacyanin 3 (see 529-3)
PC519-2-2	248	25/64	Oryza sativa		BAD24983	putative uclacyanin 3 (see 529-3)
PC519-2-3	246	28/69	Oryza sativa		BAD24983	putative uclacyanin 3
PC519-2-4	243	20/36	Oryza sativa		BAD24983	putative uclacyanin 3 (see 529-3)
PC523-1	87	14/21	Arabidopsis thaliana	At3g48410	NP_190412	catalytic/ hydrolase
PC523-2	247	71/77	Prunus persica		CAB69824	H ⁺ -exporting ATPase (EC 3.6.3.6), plasmamembrane
PC523-3	244	28/34	Nicotiana tabacum		BAB92011	pleiotropic drug resistance (PDR) like protein (see 812-2)
PC523-4	91	23/29	Arabidopsis thaliana	At5g51950	NP_200008	FAD binding / aldehyde-lyase/ oxidoreductase (see 526-1)
PC524-1	127	21/36	Arabidopsis thaliana	A t5 g64750	NP_201280	DNA binding / transcription factor (see 505-2)
PC524-3	128					no significant similarity found
PC524-4	125	19/32	Verbascum thapsus		AAL08686	ADH2 (see 525-1)
PC527-1	148	27/49	Arabidopsis thaliana	At5g25930	NP_197965	receptor related protein kinase-like (LRR)
PC527-2	147	10/18	Aedes aegypti		EAT48670	acyl-CoA oxidase
PC527-3	148	27/49	Arabidopsis thaliana	At5g25930	NP_197965	receptor related protein kinase-like (LRR)
PC527-4	148	22/34	Medicago sativa		CAB54847	hydroperoxide lyase
PC530-1	137					no significant similarity found
PC530-2	137					no significant similarity found
PC530-3	137					no significant similarity found
PC530-4	137					no significant similarity found
PC532-1-1	79					no significant similarity found
PC532-1-2	90					no significant similarity found
PC532-1-3	79					no significant similarity found
PC532-1-4	139	23/46	Arabidopsis thaliana	At2g36090	NP_181153	unknown protein (see 533-1-1)
PC532-2-1	64					no significant similarity found
PC532-2-2	90					no significant similarity found
PC532-2-3	91					no significant similarity found
PC532-2-4	65					no significant similarity found
PC533-1-1	139	22/46	Arabidopsis thaliana	At2g36090	NP_181153	unknown protein (see 532-1-4)
PC533-1-2	139	14/25	Arabidopsis thaliana	At2g36090	NP_181153	unknown protein (see 532-1-4)
PC533-1-3	138	14/25	Arabidopsis thaliana	At2g36090	NP_181153	unknown protein (see 532-1-4)
PC533-1-4	137	14/25	Arabidopsis thaliana	At2g36090	NP_181153	unknown protein (see 532-1-4)
PC533-2-1	91					no significant similarity found

PC533-2-2	91					no significant similarity found
PC533-2-3	87	24/28	Arabidopsis thaliana	At1g57720	NP_176084	translation elongation factor (see 509-2)
PC533-2-4	71	21/23	Calamus usitatus		AAB17255	alcohol dehydrogenase
PC534-1	114					no significant similarity found
PC534-2	114					no significant similarity found
PC534-3	114					no significant similarity found
PC534-4	123					no significant similarity found
PC536-3	202	25/48	Oryza sativa		BAD54224	putative 4-methyl-5-(B-hydroxyethyl)-thiazol monophosphate biosynthesis enzyme
PC536-4	188	38/40	Flaveria pringlei		CAA81076	glycine dehydrogenase A
PC538-1	156					no significant similarity found
PC538-3	153	22/29	Arabidopsis thaliana	At5g41330	NP_198949	protein binding / voltage-gated potassium channel
PC538-4	153	22/29	Arabidopsis thaliana	At5g41330	NP_198949	protein binding / voltage-gated potassium channel
PC542-1	76					no significant similarity found
PC542-2	74					no significant similarity found
PC542-3	72					no significant similarity found
PC542-4	76					no significant similarity found
PC543-1	165	16/36	Arabidopsis thaliana	At5g44360	NP_199249	electron carrier/ oxidoreductase
PC543-2	91					no significant similarity found
PC543-3	93					no significant similarity found
PC544-1	260	34/85	Arabidopsis thaliana	At4g31000	NP_194829	calmodulin-binding protein
PC544-2	260	34/85	Arabidopsis thaliana	At4g31000	NP_194829	calmodulin-binding protein
PC544-3	260	45/46	Arabidopsis thaliana	At2g20860	NP_179682	LIP1
PC544-4	260	34/85	Arabidopsis thaliana	At4g31000	NP_194829	calmodulin-binding protein
PC546-1	159	48/52	Nicotiana plumbaginifolia		CAA95999	calreticulin precursor
PC546-2	159	48/52	Nicotiana plumbaginifolia		CAA95999	calreticulin precursor
PC546-3	151	36/49	Oryza sativa		BAB12036	putative protein phosphatase
PC546-4	159	48/52	Nicotiana plumbaginifolia		CAA95999	calreticulin precursor
PC549-1	64					no significant similarity found
PC549-2	69					no significant similarity found
PC549-3	65	18/21	Arabidopsis thaliana	At1g44960	NP_175116	unknown protein
PC549-4	69					no significant similarity found
PC554-2	161	47/53	Arabidopsis thaliana	At3g25800	NP_189208	PDF1
PC555-1	112					no significant similarity found
PC555-2	130	23/44	Arabidopsis thaliana	At3g15980	NP_188219	protein transporter
PC555-4	102					no significant similarity found
PC558-1	123					no significant similarity found

PC558-4	139					no significant similarity found
PC562-1	71					no significant similarity found
PC562-3	70					no significant similarity found
PC562-4	67					no significant similarity found
PC563-1	70					no significant similarity found
PC563-2	60					no significant similarity found
PC563-4	63					no significant similarity found
PC567-1	162					no significant similarity found
PC567-2	198	15/16	Citrobacter freundii		AAL59385	Int1
PC567-3	177					no significant similarity found
PC567-4	151					no significant similarity found
PC569-1	209	47/70	Arabidopsis thaliana	At2g02960	NP_178396	protein binding / ubiquitin-protein ligase/ zinc ion binding (see 300-1)
PC569-2	152	30/47	Arabidopsis thaliana	A t3 g62260	NP_191785	catalytic/ protein phosphatase type 2C (see 300-2)
PC569-4	209	43/69	Glycine max		ABC68405	cytochrome P450 monooxygenase CYP72A68
PC574-1	98					no significant similarity found
PC574-2	79					no significant similarity found
PC574-4	77					no significant similarity found
PC575-1	129	41/43	Arabidopsis thaliana	At1g09430	NP_172414	ACLA-3
PC575-2	570	82/124	Lycopersicon esculentum		AAF22236	Pirin
PC575-3	137	16/22	Solanum tuberosum		AAA81891	probable epoxide hydrolase (EC 3.3.2.3)
PC575-4	562	85/124	Lycopersicon esculentum		AAF22236	Pirin
PC580-1	171	35/55	Arabidopsis thaliana	At1g72680	NP_177412	oxidoreductase (see 228-1)
PC580-2	174					no significant similarity found
PC580-3	<296	52/78	Arabidopsis thaliana	At3g02875	NP_186937	ILR1 (IAA-LEUCINE RESISTANT 1) (BUT no apo)
PC580-3'	266	43/61	Oryza sativa		BAC20815	putative IAA amido hydrolase
PC580-4	271					no significant similarity found
PC582-1	310	27/46	Arabidopsis thaliana	A t1 g49760	NP_564554	PAB8
PC582-2	310	45/84	Arabidopsis thaliana	A t1 g49760	NP_564554	PAB8
PC582-3	308	39/80	Arabidopsis thaliana	A t1 g49760	NP_564554	PAB8
PC582-4	303	38/49	Medicago truncatula		ABE93374	Proteasome component region PCI
PC594-1	249	16/37	Homo sapiens		AAQ88908	ERHC3048
PC594-2	250	17/40	Chlamydomonas reinhardtii		AAL14119	gamete-specific homeodomain protein (see 595-1)
PC594-3	249	16/37	Homo sapiens		AAQ88908	ERHC3048
PC594-4	340					no significant similarity found
PC595-1	250	17/40	Chlamydomonas reinhardtii		AAL14119	gamete-specific homeodomain protein (see 594-2)
PC595-2	249	15/41	Streptomyces avermitilis MA 4680		NP_827082	hypothetical protein SAV5905

PC595-3	267	16/37	Chlamydomonas reinhardtii		AAL14119	gamete-specific homeodomain protein (see 594-2)
PC595-4	251	16/37	Homo sapiens		AAQ88908	ERHC3048
PC596-1	229	44/75	Arabidopsis thaliana	A t5 g06060	NP_196225	oxidoreductase
PC596-2	231	31/36	Petroselinum crispum		CAA34715	Phenylalanine ammonia-lyase 1 (see 240-2)
PC596-3	229	73/76	Zea mays		AAA65942	TATA-binding protein
PC596-4	229	73/76	Zea mays		AAA65942	TATA-binding protein
PC601-2-1	76					no significant similarity found
PC601-2-2	396					no significant similarity found
PC603-1	85					no significant similarity found
PC603-2	153					no significant similarity found
PC603-3	153	36/51	Nicotiana tabacum		BAD07483	pleiotropic drug resistance (PDR)-type ABC transporter (see 523-3)
PC603-4	153					no significant similarity found
PC607-1	299	23/24	Daucus carota		BAC15746	B1 type cyclin
PC607-2	297	69/98	Arabidopsis thaliana	At1g19390	NP_173372	kinase (see 610-2)
PC607-3	297	69/98	Arabidopsis thaliana	At1g19390	NP_173372	kinase (see 610-2)
PC607-4	297	69/98	Arabidopsis thaliana	At1g19390	NP_173372	kinase (see 610-2)
PC608-1	285	34/73	Glycine max		AAN12272	subtilisin-like protease C1 (see 489-3)
PC608-2	289	25/52	Daucus carota		S56181	probable cell-wall-bound EP4 protein, 45K, precursor
PC608-3	285	34/73	Glycine max		AAN12272	subtilisin-like protease C1 (see 489-3)
PC608-4	285	82/94	Arabidopsis thaliana	At3g62860	NP_191845	catalytic/ hydrolase (see 489-4)
PC609-1	260	55/90	Oryza sativa		NP_922728	unknown protein
PC609-2	260	55/90	Oryza sativa		NP_922728	unknown protein
PC609-3	260	53/90	Oryza sativa		NP_922728	unknown protein
PC609-4	260	53/90	Oryza sativa		NP_922728	unknown protein
PC611-1	212					no significant similarity found
PC611-2	214	37/70	Arabidopsis thaliana	At3g17840	NP_566589	RLK902 (see 492-1)
PC611-3	214	37/70	Arabidopsis thaliana	At3g17840	NP_566589	RLK902 (see 492-1)
PC611-4	214	32/70	Arabidopsis thaliana	At3g17840	NP_566589	RLK902 (see 492-1)
PC621-3	238	39/71	Arabidopsis thaliana		BAB10320	mutator-like transposase-like protein
PC623-1	485	29/66	Glycine max		BAA19769	SRC2
PC623-2	485	31/61	Glycine max		BAA19769	SRC2
PC623-3	182	38/49	Arabidopsis thaliana	At5g64250	NP_568988	oxidoreductase
PC623-4	128	25/30	Paracoccus denitrificans PD1222		ZP_00630617	hypothetical protein PdenDRAFT_2922 (see 100-2-4)
PC628-1	313	15/20	Arabidopsis thaliana	At5g67080	NP_201509	MAPKKK19 (see 624-4)
PC628-2	253	34/57	Catharanthus roseus		AAB05871	PAPS-reductase-like protein (see 625-3)
PC628-3	340	100/113	Arabidopsis thaliana	At5g01960	NP_568096	protein binding / ubiquitin-protein ligase/ zinc ion binding (see 336-1-1) (BUT 2x taq)

PC628-4	327	27/45	Oryza sativa		BAD01246	putative MtN19 (see 604-2)
PC631-1	234	42/61	Arabidopsis thaliana	At2g36690	NP_181207	oxidoreductase
PC631-2	233	25/40	Daucus carota		AAR84407	S-adenosylmethionine decarboxylase uORF
PC631-3	233	20/20	Daucus carota		AAR84407	S-adenosylmethionine decarboxylase uORF
PC631-4	234	42/61	Arabidopsis thaliana	At2g36690	NP_181207	oxidoreductase
PC637-1	101	22/25	Cucumis sativus		AAB37749	expansin S2 precursor
PC637-2	145	18/27	Arabidopsis thaliana	At1g65720	NP_564863	unknown protein
PC637-3	151					no significant similarity found
PC637-4	152	17/37	Arabidopsis thaliana	At3g51450	NP_190713	strictosidine synthase
PC640-1	244	23/44	Arabidopsis thaliana	At1g05575	NP_563744	unknown protein
PC640-2	245	28/49	Arabidopsis thaliana	At1g05575	NP_563744	unknown protein
PC640-3	226	29/42	Oryza sativa		AAN39053	putative phosphate transporter OsPT 12
PC640-4	249	75/82	Cicer arietinum		BAA76426	rab-type small GTP-binding protein
PC642-1	172	25/49	Arabidopsis thaliana	At2g32150	NP_565738	catalytic/ hydrolase
PC642-2	169	23/37	Arabidopsis thaliana	At3g03790	NP_974213	binding
PC642-3	169	35/55	Arabidopsis thaliana	At3g03790	NP_974213	binding
PC642-4	35					no significant similarity found
PC643-1	227	22/31	Nicotiana tabacum		CAA58859	lipoxygenase (EC 1.13.11.12) (BUT 2x apo)
PC643-2	149	32/43	Nicotiana tabacum		CAA58859	lipoxygenase (EC 1.13.11.12)
PC643-3	129	39/39	Petroselinum crispum		AAD55974	WRKY1
PC643-4	143					no significant similarity found
PC644-1	157	21/24	Oryza sativa		ABG65948	putative cytosolic tRNA-Ala synthetase
PC644-2	123					no significant similarity found
PC644-3	125	38/42	Arabidopsis thaliana	At5g07920	NP_196409	ATDGK1/DGK1 (DIACYLGLYCEROL KINASE 1, DIACYLGLYCEROL KINASE1)
PC644-4	123					no significant similarity found
PC648-1	70					no significant similarity found
PC648-2	70					no significant similarity found
PC648-3	70					no significant similarity found
PC648-4	70					no significant similarity found
PC649-1	<409	75/101	Arabidopsis thaliana	At1g19270	NP_173361	zinc ion binding (BUT no taq)
PC652-1	174					no significant similarity found
PC652-2	214	24/32	Arabidopsis thaliana	At3g21190	NP_566677	unknown protein
PC652-3	185	56/60	Helianthus annuus		CAC80371	Acyl-ACP thioesterase
PC652-4	174					no significant similarity found
PC655-1	73					no significant similarity found
PC655-2	72					no significant similarity found

PC655-3	76					no significant similarity found
PC655-4	72					no significant similarity found
PC662-1	288	46/93	Arabidopsis thaliana	At1g48050	NP_564520	KU80
PC662-2	288	45/93	Arabidopsis thaliana	At1g48050	NP_564520	KU80
PC662-3	291	17/35	Arabidopsis thaliana	At1g48050	NP_564520	KU80
PC662-4	288	46/93	Arabidopsis thaliana	At1g48050	NP_564520	KU80
PC668-1	155	29/38	Gossypium hirsutum		AAL93154	bacterial-induced class III peroxidase (see 691-1-4)
PC668-2	172					no significant similarity found
PC668-3	165					no significant similarity found
PC668-4	175	20/32	Cucumis sativus		CAB76364	matrix metalloproteinase
PC672-1	160	28/38	Gossypium hirsutum		AAL93154	bacterial-induced class III peroxidase (see 691-1-4)
PC672-2	257					no significant similarity found
PC672-3	263	58/68	Linum usitatissimum		AAB02926	peroxidase (see 722-2)
PC672-4	257					no significant similarity found
PC675-1	194	36/48	Arabidopsis thaliana	At3g57120	NP_191271	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC675-2	195	36/48	Arabidopsis thaliana	At3g57120	NP_191271	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC675-3	197	36/57	Medicago truncatula		ABE85589	Zinc finger, RING-type; Thioredoxin-related
PC675-4	197	36/57	Medicago truncatula		ABE85589	Zinc finger, RING-type; Thioredoxin-related
PC678-1	140					no significant similarity found
PC678-2	140					no significant similarity found
PC678-3	142	25/39	Arabidopsis thaliana	At3g03530	NP_566206	NPC4 (NONSPECIFIC PHOSPHOLIPASE C4)
PC678-4	146	15/16	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 735-1)
PC684-1	260	40/83	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 685-2)
PC684-2	258	29/41	Vitis vinifera		CAC18730	NADH glutamate dehydrogenase
PC684-3	243	43/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 685-2)
PC684-4	257	44/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 685-2)
PC686-1	244	26/27	Citrus x paradisi		AAC67586	pyrophosphate-dependent phosphofructokinase beta subunit
PC686-2	186	38/61	Citrus x paradisi		AAN76362	serpin-like protein
PC686-3	244	35/47	Panax ginseng		BAA96068	60S ribosomal protien L27a
PC686-4	186	38/61	Citrus x paradisi		AAN76362	serpin-like protein
PC687-1	243	42/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 691-1-1)
PC687-2	244	40/81	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 691-1-1)
PC687-3	243	43/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 691-1-1)
PC687-4	243	42/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 691-1-1)
PC699-1	222	30/39	Oryza sativa		AAP44742	putative DNA-binding protein (ethylene responsive)
PC699-2	225					no significant similarity found

PC699-4	225	68/74	Arabidopsis thaliana	At3g63380	NP_191897	calcium-transporting ATPase/ calmodulin binding
PC700-1	140	15/26	Arabidopsis thaliana	At2g36990	NP_565856	SIGF (RNA POLYMERASE SIGMA-70 FACTOR)
PC700-2	141					no significant similarity found
PC700-4	139	17/30	Oryza sativa		BAD01246	putative MtN19 (see 604-2)
PC707-1	183					no significant similarity found (see 709-1)
PC707-2	185					no significant similarity found
PC707-3	182	35/56	Oryza sativa		ABA95229	retrotransposon protein, putative, Ty3-gypsy subclass
PC707-4	174	18/33	Arabidopsis thaliana	At1g30700	NP_174357	electron carrier (see 516-1)
PC738-1	243	28/71	Corynebacterium efficiens YS 314		NP_738153	conserved hypothetical protein (see 665-2-2)
PC738-2	244	33/97	Corynebacterium efficiens YS 314		NP_738153	conserved hypothetical protein (see 665-2-2)
PC738-3	249	46/53	Arabidopsis thaliana	At4g35260	NP_195252	IDH -1 (isocitrate dehydrogenase subunit 1) (NAD+ dependent)
PC738-4	244	36/97	Corynebacterium efficiens YS 314		NP_738153	conserved hypothetical protein (see 665-2-2)
PC747-1	418	51/135	Dictyostelium discoideum		AAD50375	Cyclophilin D
PC747-2	431	26/78	Aquifex aeolicus		NP_213502	cytochrome c-type biogenesis protein
PC747-3	411	19/25	Oryza sativa		AAO23085	putative LRR protein
PC747-4	65	19/20	Arabidopsis thaliana	At5g04230	NP_196043	PAL3 (PHENYL ALANINE AMMONIA-LYASE 3)
PC748-1	140	46/46	Musa acuminata		AAL16668	suppressor of K+ transport growth defekt-like protein
PC748-2	208	33/66	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC748-4	117	24/38	Nicotiana tabacum		BAA33810	phi-1 (phosphate-induced) (see 749-2)
PC751-1	175	33/43	Scutellaria baicalensis		BAA77388	peroxidase 2
PC751-2	209	23/48	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC751-4	175					no significant similarity found
PC753-1	38					no significant similarity found
PC753-3	124					no significant similarity found
PC753-4	125	23/41	Arabidopsis thaliana	At5g19440	NP_197445	putative cinnamoyl-alcohol-dehydrogenase (CAD)
PC754-1	110	23/34	Arabidopsis thaliana	At1g66860	NP_564885	expressed protein
PC754-2	194	31/37	Arabidopsis thaliana	At2g21390	NP_179734	coatomer alpha subunit
PC754-3	109					no significant similarity found
PC754-4	111	29/36	Arabidopsis thaliana	At2g21390	NP_179734	coatomer alpha subunit
PC755-1	117	26/38	Nicotiana tabacum		BAA33810	phi-1 (phosphate-induced) (see 748-4)
PC755-2	104					no significant similarity found
PC755-3	106					no significant similarity found
PC756-1	80					no significant similarity found
PC756-2	80					no significant similarity found
PC762-1	233					no significant similarity found
PC762-3	69					no significant similarity found

PC762-4	231	33/74	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC773-1	229	26/37	Arabidopsis thaliana	A t2 g31060	NP_180664	GTP binding / translation elongation factor
PC773-2	229	32/58	Nicotiana tabacum		CAC12822	AP2 domain-containing transcription factor (ethylene response)
PC773-4	232	29/53	Trichodesmium erythraeum		ZP_00074911	3-isopropylmalate dehydratase large subunit
PC774-1	38					no significant similarity found
PC774-2	225	36/53	Arabidopsis thaliana	At2g39170	NP_181450	unknown protein
PC774-3	238	21/38	Arabidopsis thaliana	At3g26040	NP_189233	acyltransferase-like protein (see 283-2)
PC774-4	220	33/54	Arabidopsis thaliana	At4g04410	CAB77909	putative polyprotein
PC776-1	38					no significant similarity found
PC776-2	197	42/61	Arabidopsis thaliana	At2g04890	NP_178566	SCL21 (SCARECROW-LIKE 21); transcription factor
PC776-3	195	17/19	Petroselinum crispum		S04552	PR1-1
PC776-4	191					no significant similarity found
PC781-1	113	24/33	Arabidopsis thaliana	At3g28210	NP_189461	PMZ (see 767-2)
PC781-2	113	24/33	Arabidopsis thaliana	At3g28210	NP_189461	PMZ (see 767-2)
PC781-3	102					no significant similarity found
PC781-4	113	24/33	Arabidopsis thaliana	At3g28210	NP_189461	PMZ (see 767-2)
PC782-1	76					no significant similarity found
PC782-2	76					no significant similarity found
PC782-3	76					no significant similarity found
PC782-4	76	13/20	Arabidopsis thaliana	At4g11410	NP_192880	oxidoreductase (see 770-2)
PC783-1	141					no significant similarity found
PC783-2	125					no significant similarity found
PC783-3	141					no significant similarity found
PC783-4	140					no significant similarity found
PC786-1	356	79/118	Solanum tuberosum		AAP84703	putative xyloglucanase inhibitor (see 787-1)
PC786-2	353	66/72	Solanum tuberosum		AAK84008	beta-amylase PCT-BMYI (see 604-1)
PC786-3	356	85/118	Solanum tuberosum		AAP84703	putative xyloglucanase inhibitor (see 787-1)
PC786-4	356	42/54	Arabidopsis thaliana	At2g26190	NP_565618	calmodulin binding (see 787-2)
PC787-1	356	88/118	Solanum tuberosum		AAP84703	putative xyloglucanase inhibitor (see 786-1)
PC787-2	358	81/110	Arabidopsis thaliana	At2g26190	NP_565618	calmodulin binding (see 278-2)
PC787-3	356	81/118	Solanum tuberosum		AAP84703	putative xyloglucanase inhibitor (see 786-1)
PC787-4	356	82/118	Solanum tuberosum		AAP84703	putative xyloglucanase inhibitor (see 786-1)
PC792-1	248					no significant similarity found
PC792-2	243	23/62	Arabidopsis thaliana	At4g27290	NP_194459	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding
PC792-3	247					no significant similarity found
PC792-4	74					no significant similarity found

PC793-2	229	35/49	Arabidopsis thaliana	At4g13930	NP_193129	SHM4 (SERINE HYDROXYMETHYLTRANSFERASE 4)
PC793-4	230	35/78	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 347-2)
PC798-1	344	64/113	Oryza sativa		BAC79895	unknown protein
PC798-2	341	42/60	Arabidopsis thaliana	At5g63450	NP_201150	CYP94B1; heme binding / iron ion binding / monooxygenase/ oxygen binding
PC798-3	341	39/60	Arabidopsis thaliana	At5g63450	NP_201150	CYP94B1; heme binding / iron ion binding / monooxygenase/ oxygen binding
PC798-4	343	35/67	Oryza sativa		BAC79895	unknown protein
PC800-1	174	25/50	Arabidopsis thaliana	At1g33560	NP_174620	putative disease resistance protein (CC-NBS-LRR class)
PC800-2	170	15/23	Medicago truncatula		ABC59082	cytochrome P450 monooxygenase CYP83H2
PC800-3	175	36/41	Arabidopsis thaliana	At3g23240	NP_188965	ethylene-response factor 1 (ERF1)
PC800-4	174					no significant similarity found
PC802-1	108	14/19	Zea mays		CAC21393	peroxidase
PC802-3	114	19/29	Arabidopsis thaliana	At1g12550	NP_172716	oxidoreductase family (see 801-2)
PC802-4	108	14/19	Zea mays		CAC21393	peroxidase
PC804-1	304	36/95	Nicotiana benthamiana		BAF02552	hypothetical protein
PC804-3	304	31/83	Nicotiana benthamiana		BAF02552	hypothetical protein
PC804-4	72					no significant similarity found
PC807-1	209					no significant similarity found
PC807-3	209					no significant similarity found
PC807-4	209					no significant similarity found
PC808-2	139	42/45	Glycine max		AAN03466	no apical meristem (NAM)-like protein (see 830-1)
PC808-3	139	43/45	Glycine max		AAN03466	no apical meristem (NAM)-like protein (see 830-1)
PC808-4	143	44/47	Daucus carota		BAA03413	EDGP precursor (see 277-2)
PC809-1	126	34/41	Arabidopsis thaliana	At3g22750	NP_566716	putative protein kinase
PC809-2	126	39/41	Arabidopsis thaliana	At3g22750	NP_566716	putative protein kinase
PC809-3	99	15/24	Arabidopsis thaliana		BAB03027	glutamine-fructose-6-phosphate transaminase 2
PC809-4	125	27/29	Arabidopsis thaliana	At3g22750	NP_566716	putative protein kinase
PC810-1	91	24/30	Arabidopsis thaliana	At5g56120	NP_200423	expressed protein
PC810-2	89					no significant similarity found
PC810-3	72	16/23	Arabidopsis thaliana	At2g45560	NP_850439	CYP76C1; heme binding / iron ion binding / monooxygenase
PC810-4	90	22/28	Lactuca sativa		AAL77102	carbohydrate oxidase (see 784)
PC811-1	468	88/139	Oryza sativa		NP_914373	unknown protein
PC811-2	468	89/139	Oryza sativa		NP_914373	unknown protein
PC811-3	140	34/39	Arabidopsis thaliana	At2g01600	NP_565267	expressed protein (see 758-1)
PC811-4	443	64/104	Arabidopsis thaliana	At4g12650	NP_193002	transporter
PC814-2	232	17/18	Arabidopsis thaliana	At5g14310	NP_568298	unknown protein
PC814-3	230	51/94	Arabidopsis thaliana	At3g52120	NP_566957	RNA binding / nucleic acid binding

PC814-4	233	44/63	Arabidopsis thaliana	At3g52120	NP_566957	RNA binding / nucleic acid binding
PC815-1	204	25/51	Arabidopsis thaliana	At1g06650	NP_172150	putative 2-oxoglutarate-dependent dioxygenase
PC815-2	205	30/65	Arabidopsis thaliana	At1g06650	NP_172150	putative 2-oxoglutarate-dependent dioxygenase
PC815-3	205	30/65	Arabidopsis thaliana	At1g06650	NP_172150	putative 2-oxoglutarate-dependent dioxygenase
PC815-4	205	25/51	Arabidopsis thaliana	At1g06650	NP_172150	putative 2-oxoglutarate-dependent dioxygenase
PC817-1	170	16/25	Arabidopsis thaliana	At3g14870	NP_188105	unknown protein
PC817-2	173	24/25	Arabidopsis thaliana	At1g02780	NP_171777	EMB2386 (see 396-2)
PC817-3	171	24/25	Arabidopsis thaliana	At1g02780	NP_171777	EMB2386 (see 396-2)
PC818-1	122	19/37	Arabidopsis thaliana	At1g18740	NP_564062	unknown protein (see 820-4)
PC818-2	122	20/37	Arabidopsis thaliana	At1g18740	NP_564062	unknown protein (see 820-4)
PC818-3	124	21/39	Arabidopsis thaliana	At1g74450	NP_565086	unknown protein (see 820-1)
PC818-4	113	25/36	Citrus sinensis		AAB65155	acidic cellulase (EC 3.2.1.4) (see 819-1)
PC819-1	114	26/36	Citrus sinensis		AAB65155	acidic cellulase (EC 3.2.1.4) (see 820-2)
PC819-2	117	25/38	Arabidopsis thaliana	At2g21970	NP_565524	stress enhanced protein 2 (SEP2)
PC819-3	119	26/31	Arabidopsis thaliana	At2g21970	NP_565524	stress enhanced protein 2 (SEP2)
PC819-4	119	26/31	Arabidopsis thaliana	At2g21970	NP_565524	stress enhanced protein 2 (SEP2)
PC820-1	120	18/34	Arabidopsis thaliana	At1g74450	NP_565086	unknown protein (see 818-3)
PC820-2	114	25/36	Citrus sinensis		AAB65155	acidic cellulase (EC 3.2.1.4) (see 818-4)
PC820-3	123	18/40	Arabidopsis thaliana	At1g74450	NP_565086	unknown protein (see 818-3)
PC820-4	124	16/28	Arabidopsis thaliana	At1g18740	NP_564062	unknown protein (see 818-1)
PC821-1	70					no significant similarity found
PC821-3	72					no significant similarity found
PC821-4	72					no significant similarity found
PC830-1	139	30/45	Glycine max		AAN03466	no apical meristem (NAM)-like protein (see 808-2)
PC830-2	139	29/44	Glycine max		AAN03466	no apical meristem (NAM)-like protein (see 808-2)
PC831-2	101					no significant similarity found
PC831-4	101					no significant similarity found
PC835-1	230	45/90	Arabidopsis thaliana	At1g72750	NP_177419	inner mitochondrial membrane protein
PC835-2	242					no significant similarity found
PC835-3	230	49/90	Arabidopsis thaliana	At1g72750	NP_177419	inner mitochondrial membrane protein