

Tabelle 7-26: Liste von Genen, deren Expression durch Pep13-Behandlung nach 4 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
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
PC265-1	287	20/39	Arabidopsis thaliana	At4g39830	NP_195693	copper ion binding
PC265-2	277	19/22	Arabidopsis thaliana	At4g19640	NP_193699	ARA7
PC265-3	290	32/33	Arabidopsis thaliana	At2g18740	NP_179464	unknown protein
PC265-4	273	13/26	Arabidopsis thaliana	At4g22030	NP_193934	F-box protein family (see 347-2)
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
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 / nucleic acid binding / transcription regulator
PC280-2	280	87/93	Arabidopsis thaliana	At2g46020	NP_182126	ATP binding / ATP-dependent helicase/ DNA binding / 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)
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
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)
PC290-1	127					no significant similarity found

PC290-2	128	30/40	Arabidopsis thaliana	At3g17700	NP_566585	CNBT1 (CYCLIC NUCLEOTIDE-BINDING TRANSPORTER 1) (see285-2)
PC290-3	128	30/40	Arabidopsis thaliana	At3g17700	NP_566585	CNBT1 (CYCLIC NUCLEOTIDE-BINDING TRANSPORTER 1) (see285-2)
PC290-4	124	14/14	Petroselinum crispum		AAG09294	unknown
PC299-1	289	58/62	Ammi majus		AAR24096	bergaptol O-methyltransferase
PC299-2	283	70/71	Arabidopsis thaliana	At5g09810	NP_196543	ACT7
PC299-3	238					no significant similarity found
PC303-1	147	36/47	Arabidopsis thaliana	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
PC313-1	213	24/31	Arabidopsis thaliana	At2g42350	NP_181764	protein binding / ubiquitin-protein ligase/ zinc ion binding
PC313-2	212	29/61	Arabidopsis thaliana	At2g42350	NP_181764	protein binding / ubiquitin-protein ligase/ zinc ion binding
PC313-3	212	29/61	Arabidopsis thaliana	At2g42350	NP_181764	protein binding / ubiquitin-protein ligase/ zinc ion binding
PC313-4	213	24/31	Arabidopsis thaliana	At2g42350	NP_181764	protein binding / ubiquitin-protein ligase/ zinc ion binding
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
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
PC320-2	16					no significant similarity found
PC320-4	16					no significant similarity found
PC320-3	135	17/43	Arabidopsis thaliana	At5g23570	NP_197747	SGS3 (SUPPRESSOR OF GENE SILENCING 3) (see 178-2)
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	At5g67250	NP_569047	SKIP2 (SKP1 INTERACTING PARTNER 2)
PC362-4	315					no significant similarity found
PC363-2	227	14/36	Rattus norvegicus		CAF33425	similar to SCO-spondin
PC363-3	227	14/36	Rattus norvegicus		CAF33425	similar to SCO-spondin
PC405-1-1	387	121/128	Arabidopsis thaliana	At5g56030	NP_200414	HSP81-2
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
PC406-1	361	40/97	Lotus japonicus		AAC62626	rac GTPase activating protein 3 (see 405-2-3)

PC406-3	361	42/97	Lotus japonicus		AAC62626	rac GTPase activating protein 3 (see 405-2-3)
PC406-4	360	41/86	Lotus japonicus		AAC62626	rac GTPase activating protein 3 (see 405-2-3)
PC406-2	397					no significant similarity found
PC407-1	118	38/39	Arabidopsis thaliana	At1g24180	NP_173828	IAR4
PC407-2	119	29/30	Arabidopsis thaliana	At1g24180	NP_173828	IAR4
PC407-3	118	38/39	Arabidopsis thaliana	At1g24180	NP_173828	IAR4
PC423-1	37					no significant similarity found
PC423-3	53					no significant similarity found
PC424-1	53					no significant similarity found
PC424-2	76					no significant similarity found
PC424-3	75					no significant similarity found
PC424-4	75					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
PC428-2	65					no significant similarity found
PC428-3	65					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
PC430-2	53					no significant similarity found (see 429-2)
PC430-4	43					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/ nucleotide binding
PC434-3	103					no significant similarity found
PC434-4	107	17/33	Arabidopsis thaliana	At5g44800	NP_199293	ATP-dependent helicase/ chromatin binding / nucleic acid binding / protein binding / zinc ion binding
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
PC437-1	48					no significant similarity found
PC437-3	40					no significant similarity found

PC437-4	49					no significant similarity found
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
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
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)
PC485-1	93	16/26	Arabidopsis thaliana	At5g43190	NP_568622	ubiquitin-protein ligase
PC485-2	133	21/21	Arabidopsis thaliana	At1g23290	NP_173743	RPL27A (RIBOSOMAL PROTEIN L27A)
PC485-3	130	15/42	Nicotiana tabacum		AAD47832	cytochrome P450 (see PC674-4)
PC485-4	130					no significant similarity found
PC499-1	94	27/31	Solanum tuberosum		CAA81749	1-aminocyclopropane-1-carboxylate synthase
PC499-2	94	27/31	Solanum tuberosum		CAA81749	1-aminocyclopropane-1-carboxylate synthase
PC499-3	94	27/31	Solanum tuberosum		CAA81749	1-aminocyclopropane-1-carboxylate synthase
PC499-4	94	27/31	Solanum tuberosum		CAA81749	1-aminocyclopropane-1-carboxylate synthase
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)
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
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
PC522-1-1	195	36/49	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
PC522-1-2	191	36/49	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)

PC522-1-3	193	47/61	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
PC522-1-4	95					no significant similarity found
PC522-2-1	100	13/18	Arabidopsis thaliana	At1g45688	NP_564495	unknown protein
PC522-2-2	99	15/30	Arabidopsis thaliana	At1g45688	NP_564495	unknown protein (see 520-3)
PC524-1	127	21/36	Arabidopsis thaliana	At5g64750	NP_201280	DNA binding / transcription factor (see 505-2)
PC524-3	128					no significant similarity found
PC524-4	125	19/32	Verbascum thapsus		AAAL08686	ADH2 (see 525-1)
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
PC528-1	164	32/54	Arabidopsis thaliana	At5g52510	NP_200064	transcription factor
PC528-2	163	32/54	Arabidopsis thaliana	At5g52510	NP_200064	transcription factor
PC528-3	163	32/54	Arabidopsis thaliana	At5g52510	NP_200064	transcription factor
PC528-4	164	32/54	Arabidopsis thaliana	At5g52510	NP_200064	transcription factor
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
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
PC552-1	175	40/55	Arabidopsis thaliana	At1g20780	NP_564125	ubiquitin-protein ligase
PC552-3	175	40/55	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
PC554-2	161	47/53	Arabidopsis thaliana	At3g25800	NP_189208	PDF1
PC559-1	-					no significant similarity found
PC559-4	-					no significant similarity found
PC598-1	144	43/47	Arabidopsis thaliana	At1g12470	NP_172709	ubiquitin-protein ligase/ zinc ion binding
PC598-2	134					no significant similarity found
PC598-4	153	27/35	Arabidopsis thaliana	At4g04470	NP_192356	peroxisomal membrane protein 22 kDa (PMP22)
PC599-1	54					no significant similarity found

PC599-2	54					no significant similarity found
PC599-4	54					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)
PC620-1	306	32/78	Nicotiana tabacum		AAP03884	ACRE 74 (U-box, homologous to PC CMPG1) (see 618-2-1)
PC620-2	304	39/80	Nicotiana tabacum		AAP03884	ACRE 74 (U-box, homologous to PC CMPG1) (see 618-2-1)
PC620-3	305	47/105	Nicotiana tabacum		AAP03884	ACRE 74 (U-box, homologous to PC CMPG1) (see 618-2-1)
PC620-4	304	39/78	Nicotiana tabacum		AAP03884	ACRE 74 (U-box, homologous to PC CMPG1) (see 618-2-1)
PC632-1	207	24/64	Arabidopsis thaliana	At1g28040	NP_174125	protein binding / ubiquitin-protein ligase/ zinc ion binding
PC632-2	206	41/65	Oryza sativa		XP_473162	OSJNBa0004N05.26
PC632-3	207	56/59	Petroselinum crispum		CAA31086	Pathogenesis-related protein A (PR1-1)
PC632-4	206	41/65	Oryza sativa		XP_473162	OSJNBa0004N05.26
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)
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
PC676-1	156	29/31	Petroselinum crispum		Q06086	Tyr-DC 2
PC676-2	156	30/31	Petroselinum crispum		Q06086	Tyr-DC 2
PC676-3	157	51/51	Petroselinum crispum		Q06086	Tyr-DC 2
PC676-4	156	30/31	Petroselinum crispum		Q06086	Tyr-DC 2
PC680-1	201					no significant similarity found
PC680-2	201					no significant similarity found
PC680-3	201					no significant similarity found
PC680-4	201					no significant similarity found
PC711-4	150	27/45	Nicotiana tabacum		BAB16427	NtEIG-E80 (elicitor inducible gene product)
PC712-1	103	16/22	Nicotiana tabacum		BAD06582	PERK1-like protein kinase (proline extensin-like receptor kinase)
PC712-2	103	14/19	Nicotiana tabacum		BAD06582	PERK1-like protein kinase (proline extensin-like receptor kinase)
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]
PC766-1	157	18/49	Arabidopsis thaliana	At4g04480	NP_192357	unknown protein (see 476-1)
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
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)
PC828-1	228					no significant similarity found
PC828-4	224	49/74	Oryza sativa		AAM97165	putative oxysterol binding protein

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Tabelle 7-27: Liste von Genen, deren Expression durch HrpZ_{P_{sph}}-Behandlung nach 4 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
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

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Tabelle 7-28: Liste von Genen, deren Expression durch NLP_{pp}-Behandlung nach 4 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
PC438-2	25					no significant similarity found
PC438-3	24					no significant similarity found
PC438-4	23					no significant similarity found
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		At1g73950	NP_177535	protein binding / ubiquitin-protein ligase/ zinc ion binding
PC695-1	134	17/37	Oryza sativa		AAK54302	putative helicase
PC695-2	36					no significant similarity found
PC695-4	160	28/42	Ehrlichia canis str. Jake		ZP_00211102	hypothetical protein Ecan 02000441

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Tabelle 7-29: Liste von Genen, deren Expression durch LPS-Behandlung nach 4 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
PC268-1	235					no significant similarity found (BUT no apo)
PC268-2	165	16/27		At5g44400	NP_199253	electron carrier (see 718-4) (BUT no taq)
PC268-3	140	21/36		At1g44170	NP_175081	ALDH3H1; aldehyde dehydrogenase
PC340-3	640 ?	15/28		At5g06370	NP_568167	unknown protein (see 630-1-1)
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)
PC436-4	311	72/82	Oryza sativa		AAN08216	ribosomal protein L15
PC445-1	46	12/14	Oryza sativa		NP_914653	germin (oxalate oxidase) -like protein
PC445-2	103	25/33		At5g03455	NP_568119	CDC25
PC445-3	147					no significant similarity found
PC445-4	166	43/55		At1g65960	NP_176771	GAD2 (GLUTAMATE DECARBOXYLASE 2) (see 256-3)
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)
PC450-2	115	25/37		At3g12610	NP_187867	DRT100 (DNA-DAMAGE REPAIR/TOLERATION 100)
PC450-3	115	25/37		At3g12610	NP_187867	DRT100 (DNA-DAMAGE REPAIR/TOLERATION 100)
PC450-4	115	25/37		At3g12610	NP_187867	DRT100 (DNA-DAMAGE REPAIR/TOLERATION 100)
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		At5g04230	NP_196043	PAL3 (PHENYL ALANINE AMMONIA-LYASE 3)
PC757-4	80					no significant similarity found

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-30: Liste von Genen, deren Expression durch Pep13- und HrpZ_{PspH}-Behandlung nach 4 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	A t3g25250	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
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
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
PC345-1	141	15/21	Arabidopsis thaliana	A t4g14440	NP_193180	carnitine racemase/ catalytic
PC345-2	154					no significant similarity found
PC345-4	108	12/22	Arabidopsis thaliana	A t1g28220	NP_174143	ATPUP3 (see 180-2)
PC392-1	220					no significant similarity found
PC392-3	142					no significant similarity found
PC392-4	141	33/47	Arabidopsis thaliana		CAB75469	copa-type reverse transcriptase-like protein
PC397-1	122	22/32	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 748-2)
PC397-3	122	22/32	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 748-2)
PC397-2	125	28/35	Arabidopsis thaliana	A t2g30440	AAB63091	putative signal peptidase I
PC397-4	125	28/35	Arabidopsis thaliana	A t2g30440	AAB63091	putative signal peptidase I
PC398-1	103					no significant similarity found
PC398-2	103					no significant similarity found
PC398-4	103					no significant similarity found
PC402-1	308	15/16	Petroselinum crispum		AAB47235	Pathogenesis-related protein

PC402-2	312	58/61		A t1g04480	NP_563707	structural constituent of ribosome
PC402-3	320	53/76	Solanum tuberosum		CAJ77506	putative peroxidase
PC402-4	314	45/100	Arabidopsis thaliana	A t5g55060	NP_200317	unknown protein
PC404-1	65	15/19	Arabidopsis thaliana	A t3g55840	NP_191143	unknown
PC404-4	69					no significant similarity found
PC404-2	75					no significant similarity found
PC404-3	76					no significant similarity found
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)
PC460-1	162	18/24	Arabidopsis thaliana	A t2g46150	NP_182138	unknown protein (see 470-1)
PC460-2	166	34/39	Arabidopsis thaliana	A t3g23540	NP_188996	catalytic
PC460-3	<193	11/17	Arabidopsis thaliana	A t1g14990	NP_172952	unknown protein
PC460-4	166	20/45	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC497-1	130	21/42	Arabidopsis thaliana	A t3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC497-2	130	21/42	Arabidopsis thaliana	A t3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC497-3	131	21/42	Arabidopsis thaliana	A t3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC497-4	129	21/42	Arabidopsis thaliana	A t3g54440	NP_680128	beta-galactosidase/ hydrolase, hydrolyzing O-glycosyl compounds
PC500-1	92	15/30	Oryza sativa		AAT38097	putative pectinesterase
PC500-2	100	28/33	Arabidopsis thaliana	A t4g13350	NP_193071	unknown protein
PC500-3	100	28/33	Arabidopsis thaliana	A t4g13350	NP_193071	unknown protein
PC500-4	73	20/21	Arabidopsis thaliana	A t3g27380	NP_189374	SDH2-1
PC514-1	228	57/58	Arabidopsis thaliana	A t4g18710	NP_193606	BIN2 (BRASSINOSTEROID-INSENSITIVE 2)
PC514-2	217	21/34	Arabidopsis thaliana	A t1g74790	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	A t5g38200	NP_568556	unknown protein
PC515-3	170	31/47	Arabidopsis thaliana	A t5g38200	NP_568556	unknown protein
PC515-2	162	18/30	Arabidopsis thaliana	A t2g47680	NP_182290	ATP binding / ATP-dependent helicase/ helicase/ nucleic acid binding
PC538-1	156					no significant similarity found
PC538-3	153	22/29	Arabidopsis thaliana	A t5g41330	NP_198949	protein binding / voltage-gated potassium channel
PC538-4	153	22/29	Arabidopsis thaliana	A t5g41330	NP_198949	protein binding / voltage-gated potassium channel
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

PC558-1	123					no significant similarity found
PC558-4	139					no significant similarity found
PC602-1	176	27/62	Arabidopsis thaliana	A t4g14746	NP_680687	unknown protein
PC602-2	176	27/62	Arabidopsis thaliana	A t4g14746	NP_680687	unknown protein
PC602-3	175	21/23	Beta vulgaris		CAC80990	dihydroorotase (see 377-1)
PC602-4	176	26/62	Arabidopsis thaliana	A t4g14746	NP_680687	unknown protein
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
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
PC615-1	165					no significant similarity found
PC615-3	165					no significant similarity found
PC615-4	165					no significant similarity found
PC617-1	94	24/30	Arabidopsis thaliana	A t1g13270	NP_172785	MAP1C (METHIONINE AMINOPEPTIDASE 1B)
PC617-2	94	23/30	Arabidopsis thaliana	A t1g13270	NP_172785	MAP1C (METHIONINE AMINOPEPTIDASE 1B)
PC617-3	94	22/31	Medicago truncatula		ABE77847	putative polyprotein-related
PC617-4	96					no significant similarity found
PC629-1	162	39/54	Arabidopsis thaliana	A t1g74360	NP_565084	ATP binding / protein kinase/ protein serine/threonine kinase/protein-tyrosine kinase
PC629-2	61					no significant similarity found
PC629-3	162	39/54	Arabidopsis thaliana	A t1g74360	NP_565084	ATP binding / protein kinase/ protein serine/threonine kinase/protein-tyrosine kinase
PC629-4	128	15/34	Arabidopsis thaliana	A t4g13770	NP_193113	CYP83A1 (CYTOCHROME P450 83A1); oxygen binding
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
PC651-1	253	56/81	Arabidopsis thaliana	A t4g30010	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	A t5g13500	NP_196854	unknown protein
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
PC675-1	194	36/48	Arabidopsis thaliana	A t3g57120	NP_191271	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC675-2	195	36/48	Arabidopsis thaliana	A t3g57120	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
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)
PC763-1	228	61/75	Arabidopsis thaliana	A t2g31960	NP_850178	ATGSL03 (GLUCAN SYNTHASE-LIKE 3); 1,3-beta-glucan synthase/transferase, transferring glycosyl groups
PC763-3	228	54/74	Arabidopsis thaliana	A t4g28570	NP_194586	electron carrier
PC763-4	229	46/49	Daucus carota		BAA03413	EDGP precursor (see 808-4)
PC794-1	224	31/47	Arabidopsis thaliana	A t1g13570	NP_172814	unknown protein
PC794-2	227	47/74	Arabidopsis thaliana	A t1g14550	NP_172907	peroxidase
PC794-3	226	35/58	Arabidopsis thaliana	A t1g14550	NP_172907	peroxidase

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Tabelle 7-31: Liste von Genen, deren Expression durch Pep13- und NLP_{pp}-Behandlung nach 4 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
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)
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)

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Tabelle 7-32: Liste von Genen, deren Expression durch Pep13- und LPS-Behandlung nach 4 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)
PC292-1	80					no significant similarity found
PC308-1	166	14/21	Arabidopsis thaliana	AT5G43580	NP_199171	serine-type endopeptidase inhibitor (see 266-3)
PC308-2	171	29/55	Medicago truncatula		ABE88160	hAT family dimerisation domain, putative
PC308-3	172	32/59	Medicago truncatula		ABE88160	hAT family dimerisation domain, putative
PC308-4	172	32/59	Medicago truncatula		ABE88160	hAT family dimerisation domain, putative
PC359-1	71	20/23	Arabidopsis thaliana	At4g27290	NP_194459	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding
PC359-2	213	54/71	Brassica oleracea		AAL60580	senescence-associated cysteine protease
PC359-3	213	56/71	Brassica oleracea		AAL60580	senescence-associated cysteine protease
PC359-4	214	53/70	Arabidopsis thaliana	At2g17480	NP_565416	MLO8
PC760-1-1	314	102/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC760-1-2	314	101/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC760-1-3	314	98/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC760-1-4	261	38/80	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC760-2-1	314	101/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC760-2-2	314	100/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC760-2-3	314	101/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)
PC760-2-4	314	101/104	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (see 758-2)

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Tabelle 7-33: Liste von Genen, deren Expression durch NLP_{pp}- und LPS-Behandlung nach 4 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
PC327-1	44					no significant similarity found
PC327-3	44					no significant similarity found
PC327-4	50					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)
PC365-1	256	74/85	Arabidopsis thaliana	At2g32980	NP_565760	unknown protein
PC369-1	209	14/44	Caulobacter crescentus		NP_419575	DNA-binding response regulator, LuxR family
PC369-2	244	67/80	Arabidopsis thaliana	At4g31700	NP_194898	RPS6 (RIBOSOMAL PROTEIN S6) (see 368-2-1)
PC369-3	244	67/80	Arabidopsis thaliana	At4g31700	NP_194898	RPS6 (RIBOSOMAL PROTEIN S6) (see 380-2)
PC369-4	244	34/41	Brassica rapa		BAA11393	putative ribosomal protein
PC487-2	89					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
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
PC589-1	385	35/54	Arabidopsis thaliana	At2g46225	NP_566067	ABI1L1
PC589-2	233	27/41	Glycine max		BAA77676	acitic 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)
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
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
PC661-1	359	13/41	Oryza sativa		XP_474384	OSJNBb0017I01.25
PC661-2	354	34/53	Arabidopsis thaliana	At4g27300	NP_194460	ATP binding / carbohydrate binding / kinase/ protein kinase (see 219-3. similar to 654)
PC661-3	187	55/61	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
PC661-4	358	49/56	Nicotiana glauca		CAA69600	NADH glutamate dehydrogenase
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
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

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Tabelle 7-34: Liste von Genen, deren Expression durch Pep13-, HrpZ_{PspH}- und NLP_{pp}-Behandlung nach 4 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
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)
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
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

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Tabelle 7-35: Liste von Genen, deren Expression durch Pep13-, HrpZ_{PspH}- und LPS-Behandlung nach 4 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
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)
PC296-1	162	-		-	-	no significant similarity found
PC296-3	171	-		-	-	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
PC321-2	205	19/24	Arabidopsis thaliana	At1g31940	NP_564386	expressed protein
PC321-3	268	-		-	-	no significant similarity found
PC321-4	257	17/33	Bacteroides fragilis YCH46		BAD48607	probable urea transport protein
PC321-6	262	61/86	Arabidopsis thaliana	At2g36430	NP_181184	hypothetical protein
PC399-1	176	32/57	Nicotiana tabacum		AAF98369	patatin-like protein I or 3, (see 396-3)
PC399-2	177	32/57	Nicotiana tabacum		AAF98369	patatin-like protein I or 3, (see 396-3)
PC399-3	175	32/57	Nicotiana tabacum		AAF98369	patatin-like protein I or 3, (see 396-3)
PC399-4	175	32/57	Nicotiana tabacum		AAF98369	patatin-like protein I or 3, (see 396-3)
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
PC535-1	194	63/64	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
PC535-4	192	37/63	Arabidopsis thaliana	AT1G53280	NP_564626	unknown protein
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

PC553-1	89	-		-	-	no significant similarity found
PC553-4	91	-		-	-	no significant similarity found
PC553-2	92	-		-	-	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

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Tabelle 7-36: Liste von Genen, deren Expression durch Pep13-, NLP_{pp}- und LPS-Behandlung nach 4 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
PC300-1	210	40/61	Arabidopsis thaliana	A t2g02960	NP_178396	protein binding / ubiquitin-protein ligase/ zinc ion binding (see 569-1)
PC300-2	153	30/47	Arabidopsis thaliana	A t3g62260	NP_191785	catalytic/ protein phosphatase type 2C (see 569-2)
PC300-3	211	29/59	Arabidopsis thaliana	A t1g30760	NP_174363	electron carrier (see364-3)
PC300-4	269	38/73	Arabidopsis thaliana	A t3g14650	NP_188083	CYP72A11; heme binding / iron ion binding / monooxygenase/ oxygen binding (BUT no apo)
PC309-1	158					no significant similarity found
PC309-4	158					no significant similarity found
PC309-2	168					no significant similarity found
PC326-1	235					no significant similarity found
PC326-2	196	52/65	Arabidopsis thaliana	A t5g23720	NP_851066	PHS1 (PROPYZAMIDE-HYPERSENSITIVE 1)
PC326-3	199	41/64	Nicotiana tabacum		AAD47832	cytochrome P450 (see 454-3)
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)
PC582-1	310	27/46	Arabidopsis thaliana	A t1g49760	NP_564554	PAB8
PC582-2	310	45/84	Arabidopsis thaliana	A t1g49760	NP_564554	PAB8
PC582-3	308	39/80	Arabidopsis thaliana	A t1g49760	NP_564554	PAB8
PC582-4	303	38/49	Medicago truncatula		ABE93374	Proteasome component region PCI
PC584-1	<320	18/23	Arabidopsis thaliana	A t4g23420	NP_194073	oxidoreductase (see 395-2) (BUT no taq)
PC584-2	<307	18/30	Nicotiana glauca 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
PC585-3	249	34/35	Petroselinum crispum		AAA98491	anionic peroxidase (see 589-4)
PC718-1	258					no significant similarity found
PC718-2	202	17/29	Nicotiana tabacum		AAD47832	cytochrome P450 (see 326-3)
PC718-3	204	27/38	Gossypium hirsutum		AAL93154	bacterial-induced class III peroxidase (see 691-1-4)
PC718-4	224	55/73	Arabidopsis thaliana	A t5g44400	NP_199253	electron carrier (see 268-2)

PC720-1	194	42/63	Arabidopsis thaliana	A t3g61800	NP_191739	expressed protein
PC720-2	154	29/38	Gossypium hirsutum		AAL93154	bacterial-induced class III peroxidase (see 691-1-4)
PC720-3	147	41/47	Arabidopsis thaliana	A t2g04740	NP_178551	protein binding
PC720-4	146	22/23	Petroselinum crispum		P42754	mannitol dehydrogenase (NAD-dependent mannitol DH), Eli 3
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	A t1g13360	NP_683304	expressed protein
PC816-4	193	35/63	Nicotiana langsdorffii x Nicotiana sanderae		AAP30840	nectarin 5

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Tabelle 7-37: Liste von Genen, deren Expression durch HrpZ_{P_{sph}}-, NLP_{P_p}- und LPS-Behandlung nach 4 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
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
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	At1g19860	NP_564096	nucleic acid binding
PC663-4	272	20/30	Medicago truncatula		ABE87175	hypothetical protein MtrDRAFT_AC151668g16v1
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 YS-314		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 YS-314		NP_738153	conserved hypothetical protein (ähnlich 664-1-1) (see 738)

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Tabelle 7-38: Liste von Genen, deren Expression durch Pep13-, HrpZ_{PspH}-, NLP_{pp}- und LPS-Behandlung nach 4 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
PC254-1	270	41/46	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)
PC254-4	ca 208	39/40	Petroselinum crispum		AAA98491	anionic peroxidase (see 113-2)
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
PC262-1	212	29/34	Arabidopsis thaliana	At4g24190	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
PC264-1	70	16/22	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC264-2	70	16/22	Daucus carota		BAB68539	(S)-reticuline oxidase-like protein (see 397-1)
PC264-3	69					no significant similarity found
PC264-4	78					no significant similarity found
PC267-2	187					no significant similarity found
PC267-3	168					no significant similarity found
PC267-4	147					no significant similarity found
PC273-1	91					no significant similarity found
PC273-2	101					no significant similarity found
PC273-3	182	27/36	Arabidopsis thaliana	At4g03230	NP_192232	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding
PC273-4	112					no significant similarity found
PC276-1	271	30/43	Arabidopsis thaliana	At2g28590	NP_180426	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase (see 564-1)

PC276-2	271	13/35	Synechococcus sp. JA 2 3B'a(2 13)	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)
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
PC283-2	350	38/79	Arabidopsis thaliana	At3g26040 NP_189233	acyltransferase-like protein (see 774-3)
PC283-3	340	73/107	Arabidopsis thaliana	At3g07090 NP_187365	unknown protein
PC283-4	127				no significant similarity found
PC288-1	278				no significant similarity found
PC288-2	272	47/61	Arabidopsis thaliana	At2g28310 NP_850118	unknown protein
PC288-3	278				no significant similarity found
PC288-4	271	79/89	Oryza sativa	NP_915679	putative ammonium transporter
PC293-1	255	59/72	Arabidopsis thaliana	At1g59830 NP_176192	PP2A-1
PC293-4	212	69/70	Petroselinum crispum	AAA33861	Tyr-DC (Eli 5) (see 312-1)
PC294-1	254	25/47	Oryza sativa	BAC57400	putative 3-ketoacyl-acyl carrier protein reductase
PC294-2	212	69/70	Petroselinum crispum	AAA33861	Tyr-DC (Eli 5) (see 312-1)
PC294-3	212	68/70	Petroselinum crispum	AAA33861	Tyr-DC (Eli 5) (see 312-1)
PC294-4	211	63/64	Petroselinum crispum	AAA33861	Tyr-DC (Eli 5) (see 312-1)
PC295-1	213	68/71	Petroselinum crispum	AAA33861	Tyr-DC (Eli 5) (see 312-1)
PC295-4	271				no significant similarity found
PC297-4	/	68/132	Arabidopsis thaliana	At5g61820 NP_200990	unknown protein
PC301-1	210	52/57	Arabidopsis thaliana	At1g31930 NP_174475	extra-large guanine nucleotide binding protein, putative
PC301-2	213	14/21	Arabidopsis thaliana	At5g43580 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	At1g72310 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)
PC322-1	226	51/73	Arabidopsis thaliana	At5g35960 NP_198445	serine/threonine protein kinase-like
PC322-2	226	51/73	Arabidopsis thaliana	At5g35960 NP_198445	serine/threonine protein kinase-like
PC322-3	226	51/73	Arabidopsis thaliana	At5g35960 NP_198445	serine/threonine protein kinase-like
PC322-4	226	51/73	Arabidopsis thaliana	At5g35960 NP_198445	serine/threonine protein kinase-like
PC323-1	152	37/49	Arabidopsis thaliana	At3g57400 NP_191299	unknown protein
PC323-2	154	19/21	Arabidopsis thaliana	At2g05710 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
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
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]
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)
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
PC360-1	80					no significant similarity found
PC360-2	71					no significant similarity found
PC360-3	106	16/22	Arabidopsis thaliana	At3g61980	NP_567123	serine-type endopeptidase inhibitor (see 318-1)
PC366-1	158	30/52	Arabidopsis thaliana	At2g34790	NP_181025	electron carrier
PC366-2	158	26/47	Arabidopsis thaliana	At2g34790	NP_181025	electron carrier
PC366-3	158	31/52	Arabidopsis thaliana	At2g34790	NP_181025	electron carrier (beste Sequenz)
PC366-4	159	32/53	Arabidopsis thaliana	At2g34790	NP_181025	electron carrier
PC370-1	130					no significant similarity found
PC370-2	130					no significant similarity found
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	At4g00400	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)
PC376-1	123					no significant similarity found
PC376-2	123					no significant similarity found
PC376-3	130	28/33	Artemisia annua		CAA04872	1-aminocyclopropane-1-carboxylate oxidase
PC376-4	70					no significant similarity found
PC377-1	69	16/21	Beta vulgaris		CAC80990	dihydroorotase (see 602-3)
PC377-2	70					no significant similarity found
PC377-3	70					no significant similarity found
PC377-4	70					no significant similarity found
PC380-1	160					no significant similarity found
PC380-2	147	33/35	Arabidopsis thaliana	At4g31700	NP_194898	RPS6 (RIBOSOMAL PROTEIN S6) (see 368-2-1)
PC380-3	160					no significant similarity found
PC380-4	162					no significant similarity found
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
PC382-1	223					no significant similarity found
PC382-2	235	28/31	Arabidopsis thaliana	At4g20840	NP_193816	electron carrier
PC382-3	227					no significant similarity found
PC382-4	226					no significant similarity found
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
PC384-1	175	38/44	Lycopersicon esculentum		AAN23154	dihydrolipoamide dehydrogenase precursor
PC384-2	122					no significant similarity found
PC384-3	224					no significant similarity found
PC384-4	180	21/42	Arabidopsis thaliana	At3g07370	NP_566305	ubiquitin-protein ligase (see 394)
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

PC387-1	179	15/28	Arabidopsis thaliana	At3g09220	NP_187533	copper ion binding
PC387-2	181	54/59	Arabidopsis thaliana	At2g16440	NP_179236	ATP binding / DNA binding / DNA-dependent ATPase/nucleoside-triphosphatase/ nucleotide binding
PC387-3	185					no significant similarity found
PC387-4	179	27/36	Arabidopsis thaliana	At3g56040	NP_567031	unknown protein
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
PC391-3	171	16/41	Arabidopsis thaliana	At5g60250	NP_200833	ubiquitin-protein ligase/ zinc ion binding
PC391-4	122					no significant similarity found
PC393-1	207	37/68	Oryza sativa		BAC57706	putative glucosyltransferase-2
PC393-2	181					no significant similarity found
PC393-3	35					no significant similarity found
PC393-4	181	27/68	Oryza sativa		BAC57706	putative glucosyltransferase-2
PC395-1	180	17/30	Arabidopsis thaliana	At1g61290	NP_176324	SYP124; t-SNARE
PC395-2	144	37/47	Arabidopsis thaliana	At4g23420	NP_194073	oxidoreductase (see 591-1)
PC396-1	85					no significant similarity found
PC396-2	173	21/22	Arabidopsis thaliana	At1g02780	NP_171777	EMB2386 (see 817-2)
PC396-3	176	31/57	Nicotiana tabacum		AAF98369	patatin-like protein I, see (399-1)
PC396-4	178					no significant similarity found
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	Dez 23	Oryza sativa		ABA92487	hypothetical protein LOC_Os11g16310 (ident. mit 401-1-4)
PC401-2-1	76	Dez 23	Oryza sativa		ABA92487	hypothetical protein LOC_Os11g16310 (ident. mit 401-1-4)
PC401-2-2	76	Dez 23	Oryza sativa		ABA92487	hypothetical protein LOC_Os11g16310 (ident. mit 401-1-4)
PC401-2-3	76	Dez 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)
PC412-1	157	46/50	Lycopersicon esculentum		CAA51679	ubiquitin (see 597-4)
PC412-2	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)
PC412-4	336	16/23	Arabidopsis thaliana	At4g16146	AAM64550	unknown protein
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	At5g39610	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	At5g39610	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	At5g10960	NP_196657	ribonuclease/ transcriptional repressor (see 416-1)
PC414-2-3	139	35/44	Arabidopsis thaliana	At5g10960	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	At5g10960	NP_196657	ribonuclease/ transcriptional repressor (see 414-2)
PC416-2	139	35/44	Arabidopsis thaliana	At5g10960	NP_196657	ribonuclease/ transcriptional repressor (see 414-2)
PC416-3	139	35/44	Arabidopsis thaliana	At5g10960	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
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
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	At5g61780	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
PC441-1	40					no significant similarity found
PC441-3	42					no significant similarity found

PC441-4	56					no significant similarity found
PC442-1	47					no significant similarity found
PC442-2	44					no significant similarity found
PC442-4	47					no significant similarity found
PC443-1	46					no significant similarity found
PC443-2	45					no significant similarity found
PC443-3	44					no significant similarity found
PC443-4	45					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
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)
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)
PC466-1	39					no significant similarity found
PC466-2	39					no significant similarity found
PC466-3	39					no significant similarity found
PC470-1	191	31/61	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 471-3)
PC470-2	191	31/61	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 471-3)
PC470-3	191	31/61	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 471-3)
PC470-4	191	31/61	Arabidopsis thaliana	At2g46150	NP_182138	unknown protein (see 471-3)
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)

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
PC480-2	<171	16/44	Mus musculus		XP_156355	hypothetical protein
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
PC483-1	96					no significant similarity found
PC483-2	45					no significant similarity found
PC483-3	303	72/87	Petroselinum crispum		AAA98491	anionic peroxidase (see 261-1) (BUT no taq)
PC483-4	278	18/36	Nicotiana tabacum		AAB88854	S-adenosylmethionine decarboxylase (BUT no apo)
PC484-2	177	27/58	Arabidopsis thaliana	At4g32010	NP_194929	transcription factor similar to VPI/AB13 family regulatory protein
PC486-3	87					no significant similarity found
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)
PC490-2	252					no significant similarity found
PC490-3	187	22/54	Gentiana triflora		BAA74428	Anthocyanin 5-aromatic acyltransferase (5AT)
PC490-4	145	22/36	Arabidopsis thaliana	At1g63710	NP_176558	CYP86A7; oxygen binding
PC492-1	155	27/34	Arabidopsis thaliana	At5g47780	NP_568688	transferase, transferring glycosyl groups
PC492-2	214	37/70	Arabidopsis thaliana	At3g17840	NP_566589	RLK902 (see 611-2)
PC492-3	214	37/70	Arabidopsis thaliana	At3g17840	NP_566589	RLK902 (see 611-2)
PC492-4	214	37/70	Arabidopsis thaliana	At3g17840	NP_566589	RLK902 (see 611-2)
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
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
PC517-1	108					no significant similarity found
PC517-2	102					no significant similarity found
PC517-3	108					no significant similarity found

PC517-4	111					no significant similarity found
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)
PC521-1-1	196	36/48	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
PC521-1-2	238	25/37	Nicotiana tabacum		CAD47830	hydroxy cinnamoyl transferase (see 508-2)
PC521-1-3	239	33/68	Nicotiana tabacum		CAD47830	hydroxy cinnamoyl transferase (see 508-2)
PC521-1-4	196	31/56	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
PC521-2-1	194	38/57	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
PC521-2-2	194	47/61	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
PC521-2-3	191	47/61	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
PC521-2-4	194	38/57	Nicotiana tabacum		AAF98369	patatin-like protein 3 (see 399)
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)
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
PC529-1	249	40/56	Nicotiana tabacum		BAB16426	EIG-I24
PC529-2	221	32/46	Lycopersicon esculentum		AAC50047	transcription factor Pti 4
PC529-3	291	37/66	Oryza sativa		BAD24983	putative uclacyanin 3 (see 519-2-2)
PC529-4	192	12/14	Daucus carota		BAD04841	pathogenesis-related protein-like protein 1
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)
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
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
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
PC561-2	216	18/29	Forsythia x intermedia		AAF64175	phenylcoumaran benzylic ether reductase homolog F2
PC564-1	271	30/43	Arabidopsis thaliana	At2g28590	NP_180426	ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase (see 276-1)
PC564-2	271					no significant similarity found
PC564-3	271	51/66	Arabidopsis thaliana	At4g11600	NP_192897	ATGPX6 (GLUTATHIONE PEROXIDASE 6)
PC564-4	277	37/55	Arabidopsis thaliana	At2g44900	NP_566029	ubiquitin-protein ligase putative arm repeat protein (see 276-4)
PC566-1	253					no significant similarity found
PC566-2	221	31/39	Daucus carota		BAA03413	EDGP precursor (see 763-4)
PC566-3	221					no significant similarity found
PC566-4	212					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
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	At3g62260	NP_191785	catalytic/ protein phosphatase type 2C (see 300-2)
PC569-4	209	43/69	Glycine max		ABC68405	cytochrome P450 monooxygenase CYP72A68
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
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)
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)
PC581-1	81					no significant similarity found
PC581-2	59	15/17	Arabidopsis thaliana	At2g21380	NP_565510	kinesin motor protein-related
PC581-3	83	17/26	Arabidopsis thaliana	At1g56145	NP_564710	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC581-4	83	17/26	Arabidopsis thaliana	At1g56145	NP_564710	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
PC591-1	223	15/23	Arabidopsis thaliana	At4g23420	NP_194073	oxidoreductase (see 395-2)
PC591-2	222					no significant similarity found
PC591-3	215	30/46	Nicotiana tabacum		BAD93690	glycosyltransferase NTGT5b
PC591-4	221	34/51	Arabidopsis thaliana	At4g23340	NP_974595	oxidoreductase
PC596-1	229	44/75	Arabidopsis thaliana	At5g06060	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
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
PC601-2-1	76					no significant similarity found
PC601-2-2	396					no significant similarity found
PC606-2	637	98/164	Arabidopsis thaliana	At2g32900	NP_565757	ATZW10
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
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)
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)
PC638-1	294	15/51	Azoarcus sp. EbN1		CAI06685	Biotin synthase protein (EC 2.8.1.6).gene: BIOB
PC638-2	37					no significant similarity found
PC638-3	242	57/65	Daucus carota		BAD24818	cell attachment protein in somatic embryogenesis (BUT no taq)
PC638-4	289					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
PC660-1	116	29/37	Arabidopsis thaliana	At5g54370	NP_200248	unknown protein
PC660-2	97	15/20	Arabidopsis thaliana	At4g27290	NP_194459	ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar binding (see 654)
PC660-3	116	29/37	Arabidopsis thaliana	At5g54370	NP_200248	unknown protein
PC660-4	116	29/37	Arabidopsis thaliana	At5g54370	NP_200248	unknown protein
PC667-1	234	16/32	Medicago truncatula		ABE81445	E-class P450, group I (BUT no taq)
PC677-1	296	43/61	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 684-1)
PC677-2	148	29/37	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 724-3)
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)
PC683-1	125	24/40	Arabidopsis thaliana	At2g16650	NP_179256	unknown protein
PC683-2	168					no significant similarity found
PC683-3	125	24/40	Arabidopsis thaliana	At2g16650	NP_179256	unknown protein
PC683-4	152	39/45	Arabidopsis thaliana	At3g24290	NP_189072	ammonium transporter
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
PC689-1	194	24/28	Arabidopsis thaliana	At4g32640	NP_194990	protein binding
PC689-2	202					no significant similarity found
PC689-3	149	21/27	Avicennia marina		AAF01467	enoyl-CoA-hydratase
PC689-4	207	34/51	Asparagus officinalis		BAB40323	cytochrome P450
PC691-1-1	246	42/56	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 692-2)

PC691-1-2	241	22/32	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 692-2)
PC691-1-3	161					no significant similarity found
PC691-1-4	147	41/44	Gossypium hirsutum		AAL93154	bacterial-induced class III peroxidase (see 672-1) (BUT taq more than one copy)
PC691-2-1	164					no significant similarity found
PC691-2-2	161					no significant similarity found
PC691-2-3	160	32/40	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 735-1)
PC691-2-4	163					no significant similarity found
PC692-2	172	15/24	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 677-1)
PC692-3	234	15/24	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 677-1)
PC692-4	233	15/24	Paracoccus denitrificans PD1222		ZP_00630616	conserved hypothetical protein (see 677-1)
PC696-1	202	60/66	Arabidopsis thaliana	At2g06990	NP_565338	HUA enhancer 2 (HEN2)/DexH-box RNA helicase, putative
PC696-2	197					no significant similarity found
PC696-3	200	57/65	Arabidopsis thaliana	At2g05840	NP_178641	PAA2; endopeptidase/ peptidase/ threonine endopeptidase (see 697-1)
PC696-4	200	56/65	Arabidopsis thaliana	At2g05840	NP_178641	PAA2; endopeptidase/ peptidase/ threonine endopeptidase (see 697-1)
PC697-1	200	56/65	Arabidopsis thaliana	At2g05840	NP_178641	PAA2; endopeptidase/ peptidase/ threonine endopeptidase (see 696-3)
PC697-2	200	55/65	Arabidopsis thaliana	At2g05840	NP_178641	PAA2; endopeptidase/ peptidase/ threonine endopeptidase (see 696-3)
PC697-3	200	56/65	Arabidopsis thaliana	At2g05840	NP_178641	PAA2; endopeptidase/ peptidase/ threonine endopeptidase (see 696-3)
PC697-4	200	57/65	Arabidopsis thaliana	At2g05840	NP_178641	PAA2; endopeptidase/ peptidase/ threonine endopeptidase (see 696-3)
PC704-1	130	21/41	Arabidopsis thaliana	At1g58807	NP_683446	ATP binding
PC704-2	130	16/36	Arabidopsis thaliana	At1g58807	NP_683446	ATP binding
PC704-3	130	20/41	Arabidopsis thaliana	At1g58807	NP_683446	ATP binding
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
PC716-1	149	37/48	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 685-1)
PC716-2	149	36/48	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 685-1)
PC716-3	149	37/48	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 685-1)
PC716-4	149	36/47	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 685-1)
PC721-1	181	44/59	Arabidopsis thaliana	At2g20780	NP_179671	carbohydrate transporter/ sugar porter (see 724-1)
PC721-2	181	44/59	Arabidopsis thaliana	At2g20780	NP_179671	carbohydrate transporter/ sugar porter (see 724-1)
PC721-3	181	34/58	Arabidopsis thaliana	At2g20780	NP_179671	carbohydrate transporter/ sugar porter (see 724-1)
PC721-4	201	58/66	Linum usitatissimum		AAB02926	peroxidase (see 672-3)

PC723-1	152	41/50	Arabidopsis thaliana		AAL74193	putative guanine nucleotide exchange factor
PC723-3	156	40/49	Arabidopsis thaliana		AAL74193	putative guanine nucleotide exchange factor
PC723-4	151	40/49	Arabidopsis thaliana		AAL74193	putative guanine nucleotide exchange factor
PC724-1	180	38/52	Arabidopsis thaliana	At2g20780	NP_179671	carbohydrate transporter/ sugar porter (see 721-1)
PC724-2	149	33/33	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 735-1)
PC724-3	149	37/48	Arabidopsis thaliana	At3g13610	NP_187970	oxidoreductase (see 685-1)
PC726-1	129	34/43	Arabidopsis thaliana	At5g50850	NP_199898	pyruvate dehydrogenase (acetyl-transferring)
PC726-2	128	23/28	Arabidopsis thaliana	At5g50850	NP_199898	pyruvate dehydrogenase (acetyl-transferring)
PC726-3	129	38/43	Arabidopsis thaliana	At5g50850	NP_199898	pyruvate dehydrogenase (acetyl-transferring)
PC726-4	153	20/26	Arabidopsis thaliana	At3g49910	NP_190560	structural constituent of ribosome
PC729-1	128	31/31	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 735-1)
PC729-2	128	30/31	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 735-1)
PC729-3	128	31/31	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 735-1)
PC730-2	144					no significant similarity found
PC730-3	128	29/29	Arabidopsis thaliana	At3g62290	NP_191788	GTP binding (see 735-1)
PC730-4	159					no significant similarity found
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)
PC739-1	201	56/66	Linum usitatissimum		AAB02926	peroxidase (see 722-2)
PC739-2	201	56/66	Linum usitatissimum		AAB02926	peroxidase (see 722-2)
PC739-3	205	29/43	Linum usitatissimum		AAB02926	peroxidase (see 722-2)
PC740-1	150	16/31				no significant similarity found
PC740-2	152	35/44	Daucus carota		BAA03413	EDGP precursor (see 763-4)
PC740-3	150	31/38	Arabidopsis thaliana	At3g48990	NP_190468	AMP binding / catalytic (see 717-1)
PC740-4	153					no significant similarity found
PC745-1	150	26/43	Arachis hypogaea		AAA32676	cationic peroxidase 2 precursor (PNPC2)
PC745-2	151	31/34	Petroselinum crispum		AAA33861	Tyr-DC (see 312-1)
PC745-4	44					no significant similarity found
PC749-1	232	53/77	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
PC749-4	231	44/61	Arabidopsis thaliana	At4g13430	NP_567405	hydro-lyase/ lyase
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)
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
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)
PC768-1	198	45/48	Prunus armeniaca		O81363	40 S ribosomal protein S4
PC768-3	332					no significant similarity found
PC769-1	228	43/69	Arabidopsis thaliana	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	Arabidopsis thaliana	At2g24180	NP_179995	CYP71B6 (CYTOCHROME P450 71B6); heme binding / iron ion binding / monooxygenase/ oxygen binding
PC770-2	97	14/20	Arabidopsis thaliana	At4g11410	NP_192880	oxidoreductase (see 782-4)
PC773-1	229	26/37	Arabidopsis thaliana	At2g31060	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
PC779-1	245	54/60	Arabidopsis thaliana	At3g54540	NP_567001	ATGCN4
PC779-2	246	72/81	Arabidopsis thaliana	At3g54540	NP_567001	ATGCN4
PC779-3	120					no significant similarity found
PC779-4	247					no significant similarity found
PC784-1	90	20/27	Lactuca sativa		AAL77102	carbohydrate oxidase
PC784-2	45					no significant similarity found

PC784-3	90	22/28	Lactuca sativa		AAL77102	carbohydrate oxidase
PC784-4	90	22/28	Lactuca sativa		AAL77102	carbohydrate oxidase
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)
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)
PC799-1	249	40/78	Ipomoea trifida		AAA97903	secreted glycoprotein 3
PC799-2	249	39/80	Ipomoea trifida		AAA97903	secreted glycoprotein 3
PC799-3	249	40/78	Ipomoea trifida		AAA97903	secreted glycoprotein 3
PC799-4	252	24/41	Arabidopsis thaliana	At1g19720	NP_173402	unknown protein
PC801-2	114	19/29	Arabidopsis thaliana	At1g12550	NP_172716	oxidoreductase family (see pc802-3)
PC801-3	114	19/29	Arabidopsis thaliana	At1g12550	NP_172716	oxidoreductase family (see pc802-3)
PC801-4	116	26/37	Arabidopsis thaliana	At3g47940	NP_190377	putative heat shock protein
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
PC803-1	114	19/29	Arabidopsis thaliana	At1g12550	NP_172716	oxidoreductase family (see 801-2)
PC803-2	114	18/29	Arabidopsis thaliana	At1g12550	NP_172716	oxidoreductase family (see 801-2)
PC803-3	110	34/36	Arabidopsis thaliana	At3g43240	AAQ82841	unknown protein
PC803-4	94					no significant similarity found
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
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)
PC821-1	70					no significant similarity found
PC821-3	72					no significant similarity found
PC821-4	72					no significant similarity found
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
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)
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

Zusätzliche Informationen zur Dissertation von Yvonne Gäbler, 2007

Tabelle 7-39: Liste von Genen, deren Expression durch Pep13-, HrpZ_{P_{sph}}-, NLP_{pp}- und LPS-Behandlung nach 1 und 4 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
PC262-1	212	29/34	Arabidopsis thaliana	At4g24190	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
PC288-1	278					no significant similarity found
PC288-2	272	47/61	Arabidopsis thaliana	At2g28310	NP_850118	unknown protein
PC288-3	278					no significant similarity found
PC288-4	271	79/89	Oryza sativa		NP_915679	putative ammonium transporter
PC301-1	210	52/57	Arabidopsis thaliana	At1g31930	NP_174475	extra-large guanine nucleotide binding protein, putative
PC301-2	213	14/21	Arabidopsis thaliana	At5g43580	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	At1g72310	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)
PC323-1	152	37/49	Arabidopsis thaliana	At3g57400	NP_191299	unknown protein
PC323-2	154	19/21	Arabidopsis thaliana	At2g05710	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
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

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]
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)
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
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	At4g00400	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
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
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	At5g39610	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	At5g39610	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	At5g10960	NP_196657	ribonuclease/ transcriptional repressor (see 416-1)
PC414-2-3	139	35/44	Arabidopsis thaliana	At5g10960	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	At5g10960	NP_196657	ribonuclease/ transcriptional repressor (see 414-2)
PC416-2	139	35/44	Arabidopsis thaliana	At5g10960	NP_196657	ribonuclease/ transcriptional repressor (see 414-2)
PC416-3	139	35/44	Arabidopsis thaliana	At5g10960	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
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
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	At5g61780	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
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)
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)
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)
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
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
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
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)
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
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
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
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
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	At3g62260	NP_191785	catalytic/ protein phosphatase type 2C (see 300-2)
PC569-4	209	43/69	Glycine max		ABC68405	cytochrome P450 monooxygenase CYP72A68
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
PC596-1	229	44/75	Arabidopsis thaliana	At5g06060	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
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
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)
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
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
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)
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
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	At2g31060	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
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)

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)
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
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
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)
PC821-1	70					no significant similarity found
PC821-3	72					no significant similarity found
PC821-4	72					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