

**Table S9.** Regulation pattern of among differentially expressed genes (DEGs) related to catalytic activities, between plants of *C. canephora* cv. Conilon Clone CL153 (CL153) and *Coffea arabica* cv. Icatu (Icatu), submitted to moderate water deficit (MWD) and severe water deficit (SWD), relative to the control of well-watered (WW) plants. DEGs were selected if annotated with the Gene Ontology (GO) terms “phosphatase activity” (GO:0016791) and/or “protein kinase activity” (GO:0004672), or any of its respective child terms. Red represent up-regulated DEGs and blue represent down-regulated DEGs.

Gene ID	Homolog	Protein name	Log <sub>2</sub> FC			
			CL153		Icatu	
			MWD	SWD	MWD	SWD
Phosphatase activity						
Cc05_g03280		inhibitor-3				1.47
Cc11_g12000	AT1G13750	Probable inactive purple acid phosphatase 1	-3.78	-4.38		-3.56
Cc02_g32670	AT1G54780	UPF0603 protein At1g54780, chloroplastic	-1.94	-2.38		-1.55
Cc03_g07240	AT3G07130	Purple acid phosphatase 23		-1.72		-3.06
Cc02_g04640		Acid phosphatase 1			-2.34	-3.36
Cc11_g05810	AT2G01890	Purple acid phosphatase 8				-5.37
Cc04_g09270		Purple acid phosphatase 17			-4.61	
Cc06_g05620	AT3G52780	Probable purple acid phosphatase 20		13.03		
Cc11_g05820	AT1G14700	Purple acid phosphatase 3		-1.61		
Cc11_g12020		Probable inactive purple acid phosphatase 1		-1.14		
Cc01_g13400	AT2G29380	Protein phosphatase 2C 37	5.02	5.09		2.99
Cc08_g16010	AT5G59220	Putative highly ABA-induced PP2C gene 2	5.97	5.07		6.1
Cc06_g02670	AT1G07630	Probable protein phosphatase 2C 4	2.79	2.92		2.16
Cc10_g08590	AT1G07160	Putative Probable protein phosphatase 2C 74	7.83	9.06		
Cc06_g11740	AT1G72770	Putative uncharacterized protein	1.73	1.7		1.18
Cc11_g09770		Probable protein phosphatase 2C 15			-2.1	-3.07

Cc10_g04270		Probable protein phosphatase 2C 12							-2.07
Cc01_g14430	AT2G30020	Probable protein phosphatase 2C 25							2.59
Cc02_g34520	AT5G27930	Probable protein phosphatase 2C 73				-2.01			-1.72
Cc03_g00420		Probable protein phosphatase 2C 49				1.27			1.05
Cc02_g34560	AT1G09160	Probable protein phosphatase 2C 5							-1.33
Cc05_g07540	AT4G28400	Probable protein phosphatase 2C 58				-1.93			
Cc03_g02000	AT3G16560	Probable protein phosphatase 2C 40				-2.56			
Cc02_g21490		Probable protein phosphatase 2C 10				1.48			
Cc02_g07430	AT3G11410	Protein phosphatase 2C 37				1.75			
Cc00_g00310	AT5G06750	Putative Probable protein phosphatase 2C 43				-2.99			
Cc03_g03380		Protein phosphatase 2C 70				1.18			
Cc11_g15860		Probable protein phosphatase 2C 14				2.72			
Cc00_g04120		Protein-tyrosine-phosphatase PTP1							0.9
Cc02_g24930		Putative dual specificity protein phosphatase DSP8							-1.43
Cc05_g02830		Probable tyrosine-protein phosphatase At1g05000						-2.76	
Cc06_g19640		Putative Dual specificity protein phosphatase 12				1.26			
Cc07_g05910	AT1G49620	Putative uncharacterized protein				-2.65			-1.91
Cc01_g17060		Cyclin-dependent kinase inhibitor 3				1.26			
Cc03_g01290	AT1G24020	Major allergen Pru ar 1			-7.23	-7.96		-8.46	-7.13
Cc11_g14370	AT1G24020	MLP-like protein 423				-6.76			-5.31
Cc00_g20730		Major allergen Mal d 1							6.76
Cc03_g01310		Putative Major allergen Pru av 1							1.3
Cc02_g05540	AT3G10940	Phosphoglucan phosphatase LSF2, chloroplastic				-1.63			-1.32
Cc01_g07830	AT5G22090	Putative Protein FAF-like, chloroplastic				-2.36			-3.21
Cc04_g02120		Inorganic pyrophosphatase 2							-2.64
Cc09_g04090		Putative Phosphoglycolate phosphatase							-1.53

Cc07_g02150		Phosphoglucan phosphatase LSF1, chloroplastic	1.95		
Cc08_g08350	AT5G25510	Serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' iota isoform			-1.63
Cc06_g01860	AT3G54050	Fructose-1,6-bisphosphatase, chloroplastic	-2.36		-2.79
Cc10_g14740	AT1G43670	Fructose-1,6-bisphosphatase, cytosolic			-2.23
Cc02_g06960	AT3G55800	Sedoheptulose-1,7-bisphosphatase, chloroplastic	-2.07		-1.8
Cc07_g11740		Putative Phosphatidylinositide phosphatase SAC1		1.12	
Cc07_g15380	AT5G65140	Probable trehalose-phosphate phosphatase J	-3.02		
<b>Protein kinase activity</b>					
Cc02_g25260	AT2G44740	Cyclin-U4-1	-2.87	-2.01	-5.97
Cc01_g19450	AT3G63120	Cyclin-P3-1		-5.87	-2.01
Cc05_g05150	AT3G21870	Cyclin-U1-1		-2.42	-3.6
Cc03_g05070	AT3G23150	Protein EIN4	2.33	3.13	
Cc02_g09070		Protein EIN4		1.12	
Cc03_g10700	AT3G28040	Probably inactive leucine-rich repeat receptor-like protein kinase At3g28040	-8.28	-8.18	-6.5
Cc10_g14210	AT5G48940	LRR receptor-like serine/threonine-protein kinase RCH1	-7.84	-7.07	-5.61
Cc11_g05120	AT4G27290	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290	2.73	2.52	
Cc11_g09660	AT2G01210	Probable inactive leucine-rich repeat receptor-like protein kinase At1g66830	-2.71	-2.59	
Cc02_g11090	AT3G09830	Probable receptor-like protein kinase At5g15080	2.97	3.6	
Cc04_g11330		Putative protein kinase family protein / peptidoglycan-binding LysM domain-containing protein	3.43	2.54	4.67
Cc04_g14520	AT2G37710	L-type lectin-domain containing receptor kinase IV.2	2.49	3.46	
Cc01_g04030	AT1G34300	Putative G-type lectin S-receptor-like serine/threonine-protein kinase RLK1	5.47	4.61	
Cc10_g04620	AT1G01540	Probable serine/threonine-protein kinase At1g01540	-2.21	-3.09	-1.93
Cc00_g18750	AT1G11330	Hypothetical protein	1.78	1.75	2.66
Cc02_g14800		Putative LRR receptor-like serine/threonine-protein kinase FLS2	-2.03		
Cc00_g01370	AT3G53810	L-type lectin-domain containing receptor kinase IV.1	1.76	1.54	
Cc04_g10280		Putative Uncharacterized aarF domain-containing protein kinase 1	-1.29	-1.51	

Cc02_g23990		Putative Leucine-rich repeat receptor protein kinase EXS	-6.33	-4.62		
Cc06_g16470	AT5G06940	Probably inactive leucine-rich repeat receptor-like protein kinase At5g06940	-4.28	-8.28	-4.49	-5.05
Cc10_g13710	AT1G23540	Protein kinase protein with adenine nucleotide alpha hydrolases-like domain	-2.15	-3.39	-2.64	-4.76
Cc05_g06630		Protein STRUBBELIG-RECEPTOR FAMILY 3	-1.9			
Cc01_g14440	AT2G32510	Putative uncharacterized protein	3.87	6.25		
Cc07_g13350	AT5G16590	Probable inactive receptor kinase At1g48480	-2.43	-4.69	-4.6	-6.06
Cc08_g07270	AT2G02780	Probable LRR receptor-like serine/threonine-protein kinase At1g14390		-3	-2.1	-3.75
Cc04_g06040	AT1G48480	Probable inactive receptor kinase At1g48480		-4.54	-2.72	-5.63
Cc06_g17380	AT3G03770	Probable inactive leucine-rich repeat receptor-like protein kinase At3g03770		-2.44		-3.68
Cc02_g05130	AT5G58300	Probable inactive receptor kinase At5g58300		-3.44	-1.93	-4
Cc05_g09040		Probable LRR receptor-like serine/threonine-protein kinase At1g07650				-4.23
Cc05_g10850		Probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840				-2.26
Cc05_g13650		Calcium-dependent protein kinase isoform 2			-2.93	-3.72
Cc01_g16990	AT5G48740	Probable LRR receptor-like serine/threonine-protein kinase At5g48740		-3.08	-4.44	-7.58
Cc08_g15670	AT4G23740	Probable inactive receptor kinase At4g23740		-7.49		-6.7
Cc02_g05340	AT3G56370	Putative Probably inactive leucine-rich repeat receptor-like protein kinase At3g28040		-3.93	-3.26	-6.11
Cc02_g16100	AT2G43850	Integrin-linked protein kinase family		-1.74		-1.9
Cc01_g08550		Serine/threonine-protein kinase Nek5		-1.83	-2.35	-3.22
Cc07_g00630	AT3G03770	Putative Probable inactive leucine-rich repeat receptor-like protein kinase At3g03770		-2.9		-4.7
Cc07_g07650	AT5G65700	Leucine-rich repeat receptor-like serine/threonine-protein kinase BAM1		-2.03		-2.51
Cc05_g12020	AT1G09600	Protein kinase superfamily protein		-2.93		-2.26
Cc03_g09580	AT4G32710	Putative Probably inactive leucine-rich repeat receptor-like protein kinase At5g48380		-5.39		-3.56
Cc06_g07330		Putative Leucine-rich repeat receptor-like protein kinase TDR				-2.39
Cc00_g08570	AT3G51740	Putative Probable leucine-rich repeat receptor-like protein kinase At1g35710		-2.86		-5.24
Cc01_g10910		Receptor-like serine/threonine-protein kinase NCRK				-2.22
Cc03_g12920	AT3G59420	Serine/threonine-protein kinase-like protein ACR4		-3.38		-3.1

Cc02_g35750	AT5G18500	Probable receptor-like protein kinase At2g42960	-3.25	-2.24	-3.38
Cc11_g16780		Putative Probable inactive leucine-rich repeat receptor-like protein kinase At1g66830			-4.91
Cc05_g10050	AT1G53700	Putative Protein kinase G11A	-6.28		-4.84
Cc08_g14480		Probable LRR receptor-like serine/threonine-protein kinase At1g63430			-2.2
Cc02_g15130		Probable LRR receptor-like serine/threonine-protein kinase MRH1			-4.65
Cc02_g17540		Probable LRR receptor-like serine/threonine-protein kinase At2g16250		-1.57	-1.7
Cc05_g10860		Probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840	-3.94	-2.46	-5.12
Cc03_g07380		Protein kinase superfamily protein			-1.41
Cc06_g17550		Putative Probable leucine-rich repeat receptor-like protein kinase At1g35710		-2.37	-4.32
Cc06_g03720		L-type lectin-domain containing receptor kinase VIII.1		-2.63	-4.22
Cc01_g17320	AT3G24660	Putative kinase-like protein TMKL1	-2.43		-2.9
Cc09_g06910	AT2G37710	L-type lectin-domain containing receptor kinase IV.1	-4.11		-1.86
Cc11_g16310	AT1G67720	Probable LRR receptor-like serine/threonine-protein kinase At1g67720			-1.9
Cc06_g15060	AT2G24230	Probable LRR receptor-like serine/threonine-protein kinase At2g24230	-4.56		-2.55
Cc04_g10890	AT2G31880	Leucine-rich repeat receptor-like serine/threonine/tyrosine-protein kinase SOBIR1	-1.84	-1.15	-2.46
Cc11_g05000	AT3G51550	Receptor-like protein kinase FERONIA	-2.47		-2.25
Cc02_g12010		Putative G-type lectin S-receptor-like serine/threonine-protein kinase SD1-1			-2.73
Cc03_g13280		Putative LRR receptor-like serine/threonine-protein kinase EFR			-5.53
Cc02_g18910		Probable receptor-like protein kinase At1g49730			-2.19
Cc00_g32370		Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850			-7.27
Cc11_g09790	AT5G38280	Putative Protein kinase superfamily protein	-4.53		-2.66
Cc04_g04440		Protein kinase superfamily protein	1.91		1.33
Cc04_g00580		Protein STRUBBELIG-RECEPTOR FAMILY 6			-1.08
Cc05_g09640	AT2G42960	Probable receptor-like protein kinase At2g42960		-3.2	-2.6
Cc06_g20000	AT3G51550	Receptor-like protein kinase FERONIA	-2.66		-3.34
Cc00_g07730		Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570			-2.03

Cc10_g15220	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-3.9	-5.05
Cc07_g06440		Probable LRR receptor-like serine/threonine-protein kinase At4g37250		-2.05
Cc00_g05240	AT1G35710	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850		-4.07
Cc02_g38420		Probable serine/threonine-protein kinase At1g01540		-1.86
Cc09_g04550	AT4G20270	Leucine-rich repeat receptor-like serine/threonine-protein kinase BAM3	-1.85	-2.26
Cc00_g21310		Putative Probable leucine-rich repeat receptor-like protein kinase At1g35710		-6.28
Cc00_g13430	AT3G51550	Receptor-like protein kinase FERONIA	-2.18	-1.98
Cc04_g02520		Putative proline-rich receptor-like protein kinase PERK11		-2.06
Cc00_g13410	AT3G51550	Receptor-like protein kinase FERONIA	-1.82	-2.22
Cc06_g09170		Probable inactive receptor kinase At2g26730		-2.55
Cc08_g13530		Probable LRR receptor-like serine/threonine-protein kinase At1g12460		-2.48
Cc02_g04620		U-box domain-containing protein 35		-1.09
Cc10_g03070	AT3G17850	Protein kinase superfamily protein	1.9	1.19
Cc11_g04990	AT3G51550	Receptor-like protein kinase FERONIA	-2.77	-2.16
Cc05_g14630	AT5G55560	Probable serine/threonine-protein kinase WNK11	1.46	1.26
Cc05_g10820		Probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840		1.76
Cc01_g14620		Putative Probable LRR receptor-like serine/threonine-protein kinase MRH1		-3.88
Cc02_g01730		Putative Probable receptor-like protein kinase At1g67000		-1.71
Cc02_g01990	AT4G23740	Probable inactive receptor kinase At4g23740	-4.07	-1.22
Cc02_g32130	AT3G03770	Probable inactive leucine-rich repeat receptor-like protein kinase At3g03770	-3.93	
Cc06_g16710	AT2G41820	Leucine-rich repeat receptor-like tyrosine-protein kinase At2g41820	-3.48	
Cc10_g00770	AT4G35230	Probable serine/threonine-protein kinase At4g35230	2.16	
Cc01_g19140	AT2G24360	Putative serine/threonine-protein kinase/receptor R826	2.49	
Cc04_g14640	AT3G53810	L-type lectin-domain containing receptor kinase IV.2	-3.05	
Cc07_g13990	AT5G10520	Receptor-like cytosolic serine/threonine-protein kinase RBK1	-2.02	
Cc04_g02090	AT1G23540	Putative Inactive protein kinase SELMODRAFT_444075	-2.63	

Cc10_g06310	AT1G71810	Uncharacterized aarF domain-containing protein kinase At1g71810, chloroplastic	2.03
Cc04_g04850	AT1G80640	Probable receptor-like protein kinase At1g80640	-2.6
Cc00_g00500	AT5G38280	Putative Protein kinase superfamily protein	-4.5
Cc01_g03450	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-7.76
Cc02_g32030	AT2G17220	Putative Probable serine/threonine-protein kinase Cx32, chloroplastic	-8.27
Cc07_g08090	AT5G57670	Protein kinase superfamily protein	-2.79
Cc06_g15450	AT1G65790	Putative uncharacterized protein	3.35
Cc00_g05290	AT1G35710	Putative Probable leucine-rich repeat receptor-like protein kinase At1g35710	-3.88
Cc00_g00610	AT1G66920	Putative Protein kinase superfamily protein	-2.65
Cc00_g16320	AT5G38280	Putative Probable receptor-like protein kinase At5g39030	-3.84
Cc07_g07640	AT5G65710	LRR receptor-like serine/threonine-protein kinase HSL2	-2.09
Cc07_g02320		Putative Serine/threonine-protein kinase HT1	-1.77
Cc05_g05830	AT3G21800	Putative UDP-glucose flavonoid 3-O-glucosyltransferase 3	-2.55
Cc07_g06250	AT5G67200	Probable inactive receptor kinase At5g67200	-2.62
Cc00_g15440	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-4.72
Cc09_g05900		Wall-associated receptor kinase-like 9	-5.89
Cc00_g33660	AT1G66920	Putative Protein kinase superfamily protein	-2.78
Cc03_g08650	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-4.97
Cc00_g11980	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-3.32
Cc06_g19780	AT3G51550	Putative Receptor-like protein kinase FERONIA	-2.04
Cc10_g07290	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	3.95
Cc01_g15390	AT5G58300	Probable inactive receptor kinase At5g58300	-2.56
Cc05_g10830	AT3G14840	Probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840	-5.42
Cc00_g27770	AT1G35710	Putative Probable leucine-rich repeat receptor-like protein kinase At1g35710	-3.45
Cc01_g02930	AT1G11330	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330	-6.78
Cc10_g13900	AT2G17220	Putative Probable serine/threonine-protein kinase NAK	-2.77

Cc09_g01270	AT4G22130	Protein STRUBBELIG-RECEPTOR FAMILY 8	-2.54
Cc05_g03560	AT4G23180	Putative Cysteine-rich receptor-like protein kinase 25	-2.85
Cc02_g22650	AT1G11050	Probable receptor-like protein kinase At1g11050	-3.13
Cc10_g15250	AT4G08850	Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-3.91
Cc09_g05880	AT1G19390	Kinase, putative	-4.68
Cc00_g25450	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-3.95
Cc00_g11970	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-2.98
Cc11_g05150	AT4G27290	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290	-2.11
Cc01_g12080	AT3G46290	Receptor-like protein kinase HERK 1	1.66
Cc02_g10180	AT5G39000	Putative receptor-like protein kinase At5g39000	-2.9
Cc02_g32040		Leucine-rich repeat receptor-like serine/threonine/tyrosine-protein kinase SOBIR1	-6.42
Cc00_g26190	AT3G47570	Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570	-2.66
Cc04_g14650	AT2G37710	L-type lectin-domain containing receptor kinase IV.1	-1.72
Cc00_g05990		Putative Probable leucine-rich repeat receptor-like protein kinase At1g35710	-7.35
Cc03_g08680	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-4.04
Cc08_g13220		Putative Protein STRUBBELIG-RECEPTOR FAMILY 8	-2.58
Cc07_g14790	AT2G17220	Putative Probable serine/threonine-protein kinase Cx32, chloroplastic	-4.11
Cc02_g15910	AT1G29750	Probable LRR receptor-like serine/threonine-protein kinase RFK1	1.77
Cc10_g01180	AT1G76040	Calcium-dependent protein kinase 29	1.77
Cc04_g14540	AT2G37710	L-type lectin-domain containing receptor kinase IV.1	-2.42
Cc03_g02360		Probable serine/threonine-protein kinase At1g54610	-3.7
Cc01_g17940	AT4G08850	Putative Probable leucine-rich repeat receptor-like protein kinase At1g35710	-3.61
Cc03_g08610	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-4.68
Cc02_g06120	AT3G56050	Putative Probable LRR receptor-like serine/threonine-protein kinase MRH1	1.71
Cc01_g08200	AT5G49770	Putative Probable leucine-rich repeat receptor-like protein kinase At5g49770	-2.23
Cc00_g00560		Putative uncharacterized protein	-3.37



Cc06_g12210		Putative receptor-like protein kinase At1g72540	-2.54
Cc02_g30790	AT1G16110	Putative LRR receptor-like serine/threonine-protein kinase FLS2	-2.47
Cc04_g08690		Putative Receptor-like serine/threonine-protein kinase SD1-7	2.37
Cc10_g12040	AT4G08850	Putative uncharacterized protein	-6.1
Cc07_g04390	AT3G51550	Putative Receptor-like protein kinase FERONIA	-2.18
Cc03_g08750		Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-3.93
Cc10_g13890		Putative Probable LRR receptor-like serine/threonine-protein kinase At2g16250	-1.18
Cc07_g05210	AT2G23770	Putative protein kinase family protein / peptidoglycan-binding LysM domain-containing protein	1.81
Cc09_g10140	AT1G10620	Putative Protein kinase protein with adenine nucleotide alpha hydrolases-like domain	-2.01
Cc00_g33740	AT4G08850	Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-2.58
Cc02_g10200	AT3G51550	Putative Receptor-like protein kinase FERONIA	-2.8
Cc04_g14560	AT2G37710	L-type lectin-domain containing receptor kinase IV.2	-1.94
Cc02_g31960		Putative LRR receptor-like serine/threonine-protein kinase GSO1	-6.48
Cc10_g10360	AT1G21270	Putative Wall-associated receptor kinase 2	-2.4
Cc03_g10610		Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-3.01
Cc03_g03360	AT3G06030	Mitogen-activated protein kinase kinase kinase 3	-1.63
Cc11_g00840		Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570	-2.6
Cc02_g04630		Putative kinase-like protein TMKL1	-2.44
Cc00_g26900		Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850	-2.62
Cc04_g16790	AT2G17220	Putative Probable serine/threonine-protein kinase Cx32, chloroplastic	-1.57
Cc00_g01420	AT2G37710	L-type lectin-domain containing receptor kinase IV.1	-2.02
Cc01_g09560		Protein kinase G11A	-2.05
Cc05_g15130		Protein kinase G11A	-1.48
Cc05_g00260		Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570	-5.77
Cc03_g13610		L-type lectin-domain containing receptor kinase IV.1	-4.07
Cc02_g15920	AT3G14840	Probable LRR receptor-like serine/threonine-protein kinase At1g07650	2.14

Cc07_g09380		Proline-rich receptor-like protein kinase PERK5		1.92		
Cc03_g10650		Putative Probable LRR receptor-like serine/threonine-protein kinase At4g08850		-3.19		
Cc04_g05060	AT5G10930	CBL-interacting serine/threonine-protein kinase 5	2.74	2.63		2.45
Cc10_g00540	AT2G17220	Probable serine/threonine-protein kinase Cx32, chloroplastic	2.34	2.2		
Cc01_g11900	AT5G02800	Probable serine/threonine-protein kinase RLCKVII	3.23	3.05	2.8	3.36
Cc03_g15230	AT5G49770	Probable leucine-rich repeat receptor-like protein kinase At5g49770	-8.17	-4.48	-8.35	-10.51
Cc08_g01090	AT2G26330	LRR receptor-like serine/threonine-protein kinase ERECTA	-3.98	-2.93		-3.28
Cc02_g15170		CBL-interacting serine/threonine-protein kinase 12	1.61	1.55		
Cc02_g07800	AT5G02290	Protein kinase APK1A, chloroplastic	1.43	1.63		1.8
Cc02_g39880	AT1G01140	CBL-interacting serine/threonine-protein kinase 9	-2.08	-2.21		-1.96
Cc01_g15180	AT2G30360	CBL-interacting serine/threonine-protein kinase 11	1.9	1.61		
Cc08_g11200	AT4G33950	Serine/threonine-protein kinase SAPK3	2.36	2.55		
Cc05_g12860	AT4G27290	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290	-1.96	-3.63		-3.31
Cc01_g17620	AT2G20300	Receptor-like serine/threonine-protein kinase ALE2	-4.77	-3.54	-2.81	-5.15
Cc02_g11930		Putative uncharacterized protein	-1.89	-2.19		
Cc04_g14140		Putative Serine/threonine-protein kinase ATM	2.55	2.48		
Cc11_g05620	AT2G01950	Serine/threonine-protein kinase BRI1-like 2	-4	-4.32		
Cc02_g17600	AT4G34500	Probable receptor-like serine/threonine-protein kinase At4g34500		-4.11	-2.3	-7.53
Cc02_g15400		Probable LRR receptor-like serine/threonine-protein kinase At5g45780			-2.9	-8.17
Cc00_g18440	AT4G21390	G-type lectin S-receptor-like serine/threonine-protein kinase At4g03230		-4.55		-3.5
Cc07_g14700	AT4G33950	Serine/threonine-protein kinase SAPK2		-2.49		-3.09
Cc05_g15350	AT4G26540	Probable LRR receptor-like serine/threonine-protein kinase At4g26540		-4.95	-2.76	-4.38
Cc11_g14360		Putative Serine/threonine-protein kinase PBS1			-4.41	-8.61
Cc02_g04420	AT5G61480	Leucine-rich repeat receptor-like protein kinase TDR		-5.87	-3.07	-5.87
Cc02_g32440	AT3G05140	Receptor-like cytosolic serine/threonine-protein kinase RBK2			-2.87	-3.32
Cc10_g10510		putative protein kinase 1		1.37		3.07

Cc08_g00130	AT1G80640	Probable receptor-like protein kinase At1g80640	-1.88	-1.39	-1.86
Cc01_g04050	AT2G23950	Putative G-type lectin S-receptor-like serine/threonine-protein kinase RLK1	3.02		8.05
Cc07_g17480		Putative G-type lectin S-receptor-like serine/threonine-protein kinase RLK1			-2.71
Cc04_g13490	AT4G21390	G-type lectin S-receptor-like serine/threonine-protein kinase At4g03230	-3.07		-2.89
Cc04_g05170	AT1G80870	Putative receptor-like protein kinase At1g80870	-1.89		-2.96
Cc07_g04770	AT5G16000	Protein NSP-INTERACTING KINASE 1	-2.65		-2.54
Cc10_g09100		Putative LRR receptor-like serine/threonine-protein kinase GSO1			-5.82
Cc07_g17730		Putative G-type lectin S-receptor-like serine/threonine-protein kinase RLK1			-1.6
Cc09_g05650		Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570			-4.69
Cc07_g17470		Putative G-type lectin S-receptor-like serine/threonine-protein kinase RLK1	-3.94		-4.13
Cc05_g07760	AT1G28440	Receptor-like protein kinase HSL1	-5.28		-4.97
Cc02_g15390	AT4G18710	Shaggy-related protein kinase eta	-1.71		-1.65
Cc03_g05470	AT1G08650	Putative Phosphoenolpyruvate carboxylase kinase 1		-2.82	-4
Cc00_g18980	AT5G38280	Putative Probable receptor-like protein kinase At5g39020	-3.11		-1.53
Cc01_g15420	AT1G06840	Probable LRR receptor-like serine/threonine-protein kinase At1g06840	-1.74		-1.56
Cc01_g08520		Putative Probable receptor protein kinase TMK1			-1.82
Cc04_g15670		LRR receptor-like serine/threonine-protein kinase FEI 1			-6.24
Cc04_g12550	AT4G26540	Probable LRR receptor-like serine/threonine-protein kinase At4g26540	-		
Cc00_g00530	AT5G38280	Putative Probable receptor-like protein kinase At5g39030	10.56		
Cc00_g11830		Putative Octicosapeptide/Phox/Bem1p family protein	-3.81		
Cc00_g00570	AT5G38280	Putative Probable receptor-like protein kinase At1g67000	-3.31		
Cc00_g18460	AT4G21390	S-locus lectin protein kinase family protein	-5.57		
Cc03_g09260		Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570	-4.5		
Cc01_g11930	AT3G45780	Phototropin-1	-6.07		
Cc05_g04090	AT1G05100	mitogen-activated protein kinase kinase kinase 18	-3.61		
			4.32		

Cc11_g10600	AT1G68830	Serine/threonine-protein kinase STN7, chloroplastic	-2.19
Cc04_g04430	AT3G15890	PTI1-like tyrosine-protein kinase At3g15890	-2.58
Cc02_g38260	AT2G19130	G-type lectin S-receptor-like serine/threonine-protein kinase SD2-2	-3.75
Cc04_g00430	AT1G17750	Receptor-like protein kinase	-3.91
Cc01_g06680	AT2G02800	Protein kinase APK1A, chloroplastic	2.11
Cc07_g17590	AT1G34300	Putative G-type lectin S-receptor-like serine/threonine-protein kinase RLK1	-5.06
Cc03_g07800	AT2G32800	Receptor like protein kinase S.2	-2.87
Cc05_g12890	AT4G27290	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290	-2.27
Cc00_g00590	AT5G38280	Putative Probable receptor-like protein kinase At5g39020	-3.59
Cc02_g33720	AT5G02800	Putative Protein kinase superfamily protein	-5.1
Cc03_g09320	AT3G23750	Probable receptor protein kinase TMK1	-5.39
Cc06_g23860	AT2G07180	Protein kinase superfamily protein	-2.32
Cc07_g15490	AT1G34300	Putative G-type lectin S-receptor-like serine/threonine-protein kinase RLK1	-3.27
Cc01_g19930	AT3G05140	Receptor-like cytosolic serine/threonine-protein kinase RBK2	1.81
Cc05_g08980		Putative G-type lectin S-receptor-like serine/threonine-protein kinase SD2-5	-6.56
Cc08_g01510	AT5G47070	Probable receptor-like protein kinase At5g47070	1.4
Cc11_g07840		Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570	-7.27
Cc00_g00600	AT5G38280	Putative uncharacterized protein	-1.69
Cc04_g13790		Putative Probable serine/threonine-protein kinase Cx32, chloroplastic	-7.13
Cc02_g12060	AT4G21380	Receptor-like serine/threonine-protein kinase SD1-8	-2.96
Cc00_g16330		Putative Probable receptor-like protein kinase At5g39030	-5.56
Cc04_g09550		Protein kinase superfamily protein	-1.33
Cc09_g06080	AT5G18500	Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570	-3.79
Cc10_g11310		Putative Receptor-like protein kinase HAIKU2	-1.46
Cc04_g07480	AT5G15080	Putative receptor protein kinase ZmPK1	-2.37
Cc11_g15400	AT1G60800	Protein NSP-INTERACTING KINASE 3	-1.91

Cc11_g08590		Mitogen-activated protein kinase 12		-1.35		
Cc11_g09750		Probable serine/threonine-protein kinase At1g18390		-1.42		
Cc04_g11420		Probable serine/threonine-protein kinase WNK2		1.52		
Cc06_g15160		CBL-interacting serine/threonine-protein kinase 6		1.32		
Cc06_g08130	AT3G01300	Receptor-like serine/threonine-protein kinase At3g01300		-1.66		
Cc05_g08950	AT2G19130	Putative G-type lectin S-receptor-like serine/threonine-protein kinase SD2-5		-2.33		
Cc04_g10770	AT1G66920	Putative Probable receptor-like protein kinase At1g67000		-2.08		
Cc02_g12050	AT4G27300	G-type lectin S-receptor-like serine/threonine-protein kinase At4g03230		-2.01		
Cc02_g15310		Putative Probable LRR receptor-like serine/threonine-protein kinase At3g47570		-3.47		
Cc06_g16950		G-type lectin S-receptor-like serine/threonine-protein kinase SD3-1		-2.27		
Cc10_g10380		Calcium-dependent protein kinase 11		-1.39		
Cc03_g13330		Putative LRR receptor-like serine/threonine-protein kinase EFR		-6.02		
Cc07_g13130	AT1G66150	Probable receptor protein kinase TMK1	-8.95	-7.79		-5.81
Cc05_g09440	AT2G42880	Mitogen-activated protein kinase 10	1.76	2.24		1.16
Cc08_g15160		Mitogen-activated protein kinase 4		-1.33		
Cc03_g02630	AT3G21510	Histidine-containing phosphotransfer protein 1				1.85
Cc03_g03500		Cyclin T1			1.15	1.14
Cc03_g03490	AT4G19600	Putative uncharacterized protein			1.08	
Cc04_g10020		SNF1-related protein kinase regulatory subunit gamma-1			1.43	
Cc07_g12970		TPX2 (targeting protein for Xklp2) protein family			-6.66	-9.1
Cc02_g03820		Putative Cell cycle regulated microtubule associated protein		-5.36		