

Supplementary Materials

Table S1. Summary of sequencing data for *Cynomorium songaricum* transcriptome.

	CR	CS
Unfiltered data		
Data of reads number (million)	51.31	46.89
Reads length	150	150
GC (%)	47.61	47.78
Data of reads number×read length (million)	7,696	7,033
Q20 (%)	96.77	96.67
Q30 (%)	91.47	91.29
Filtered data¹		
Data of reads number (million)	51.24	46.80
Data of reads number×read length (million)	7,686	7,020
Q20 (%)	96.82	96.72
Q30 (%)	91.54	91.36
Mapped data²		
Data of unique mapped reads (million)	42.46	39.45
Data of multiple mapped reads (million)	1.61	1.39
Mapping ratio (%)	89.90	90.31
Compiled data		
Total number of unigenes	95,126	
Total Length (bp) (million)	68.96	
N50 (bp)	1,086	
Max length (bp)	15,090	
Min length (bp)	201	
Average Length (bp)	724	
GC content (%)	42.03	

¹ Reads with a quality score < 30 and length < 60 bp were excluded;

² Mapping ratio = (Unique mapped reads + Multiple mapped reads) / Filtered reads.

Table S2. Primary metabolism genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Carbohydrate metabolism		
<i>N/A</i>	Glycosyl hydrolase 5 family protein	2.66
<i>A6</i>	Probable glucan endo-1,3-beta-glucosidase A6	1.51
<i>AGAL2</i>	Alpha-galactosidase 2	-1.96
<i>Aldoa</i>	Fructose-bisphosphate aldolase A	-10.68
<i>ALG10</i>	Dol-P-Glc:Glc(2)Man(9)GlcNAc(2)-PP-Dol alpha-1,2-glucosyltransferase	-1.23
<i>At1g27200</i>	Glycosyltransferase family 92 protein At1g27200	-5.03
<i>At1g32860</i>	Glucan endo-1,3-beta-glucosidase 11	3.20
<i>At1g48100</i>	Polygalacturonase At1g48100	2.40
<i>At1g64760</i>	Glucan endo-1,3-beta-glucosidase 8	1.83
<i>At2g43610</i>	Endochitinase At2g43610	2.72
<i>At2g43620</i>	Endochitinase At2g43620	3.38
<i>At2g43860</i>	Polygalacturonase	-2.32
<i>At2g01630</i>	Glucan endo-1,3-beta-glucosidase 3	2.19
<i>At2g27500</i>	Glucan endo-1,3-beta-glucosidase 14	1.20
<i>At2g31390</i>	Probable fructokinase-1	2.94
<i>At3g08590</i>	Probable 2,3-bisphosphoglycerate-independent phosphoglycerate mutase 2	2.42
<i>At3g05260</i>	Glucose and ribitol dehydrogenase homolog 2	-1.04
<i>At4g26390</i>	Probable pyruvate kinase, cytosolic isozyme	3.58
<i>At4g29360</i>	Glucan endo-1,3-beta-glucosidase 12	1.63
<i>AXY4</i>	ALTERED XYLOGLUCAN 4	2.26
<i>AXY4L</i>	Protein ALTERED XYLOGLUCAN 4-like	-1.17
<i>BACOVA_02659</i>	Beta-glucosidase BoGH3B	1.61
<i>BG</i>	Basic 7S globulin	3.26
<i>BGAL12</i>	Beta-galactosidase	-1.00
<i>BGAL5</i>	Beta-galactosidase 5	-1.32
<i>BGAL7</i>	Beta-galactosidase 7	-3.29
<i>BGLU23</i>	Beta-glucosidase 23	-2.57
<i>BGLU25</i>	Probable inactive beta-glucosidase 25	3.12
<i>BGLU44</i>	Beta-glucosidase 44	-1.08
<i>BGLU6</i>	Beta-glucosidase 6	-1.53
<i>BXL4</i>	Beta-D-xylosidase 4	1.78
<i>BXL5</i>	Probable beta-D-xylosidase 5	-2.84
<i>CAISE5</i>	Glucose and ribitol dehydrogenase	5.35
<i>CALS10</i>	Callose synthase 10	3.86
<i>CALS9</i>	Callose synthase 9	8.81
<i>Cbr2</i>	Carbonyl reductase [NADPH] 2	-8.62
<i>CEMIP</i>	Cell migration-inducing and hyaluronan-binding protein	-10.45
<i>Cemip</i>	Cell migration-inducing and hyaluronan-binding protein	-10.21
<i>ChiC</i>	Class V chitinase	-1.26
<i>CHIT3</i>	Hevamine-A	3.75
<i>CWINV1</i>	Beta-fructofuranosidase, insoluble isoenzyme CWINV1	1.40
<i>CYFBP</i>	Fructose-1,6-bisphosphatase, cytosolic	2.29
<i>CYT1</i>	Mannose-1-phosphate guanylyltransferase 1	3.29
<i>DSP4</i>	Phosphoglucan phosphatase DSP4, amyloplastic	-1.95

<i>ENO</i>	Enolase	2.10
<i>ENO1</i>	Alpha-enolase	-8.14
<i>ENO1</i>	Alpha-enolase	-9.56
<i>eno1</i>	Alpha-enolase	9.54
<i>ENO2</i>	Bifunctional enolase 2/transcriptional activator	3.04
<i>EP3</i>	Endochitinase EP3	-4.70
<i>FBA3</i>	Fructose-bisphosphate aldolase 3, chloroplastic	1.73
<i>FBA5</i>	Fructose-bisphosphate aldolase 5, cytosolic	4.09
<i>FBA6</i>	Fructose-bisphosphate aldolase 6, cytosolic	4.07
<i>FBA8</i>	Fructose-bisphosphate aldolase 8, cytosolic	3.08
<i>GAE1</i>	UDP-glucuronate 4-epimerase 1	4.21
<i>GAE6</i>	UDP-glucuronate 4-epimerase 6	4.73
<i>GALM</i>	Aldose 1-epimerase	1.34
<i>GapA</i>	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic	8.83
<i>GAPA1</i>	Glyceraldehyde-3-phosphate dehydrogenase GAPA1, chloroplastic	5.47
<i>GAPA2</i>	Glyceraldehyde-3-phosphate dehydrogenase GAPA2, chloroplastic	4.37
<i>GAPB</i>	Glyceraldehyde-3-phosphate dehydrogenase GAPB, chloroplastic	7.25
<i>GAPC</i>	Glyceraldehyde-3-phosphate dehydrogenase, cytosolic	3.25
<i>GAPC1</i>	Glyceraldehyde-3-phosphate dehydrogenase GAPC1, cytosolic	3.21
<i>GAPC2</i>	Glyceraldehyde-3-phosphate dehydrogenase GAPC2, cytosolic	3.42
<i>GAPDH</i>	Glyceraldehyde-3-phosphate dehydrogenase	-10.12
<i>GAPDH</i>	Glyceraldehyde-3-phosphate dehydrogenase	-9.94
<i>gapdh-2</i>	Glyceraldehyde-3-phosphate dehydrogenase 2	10.76
<i>GATL1</i>	Probable galacturonosyltransferase-like 1	1.73
<i>GLC1</i>	Glucan endo-1,3-beta-glucosidase	-3.24
<i>GMD1</i>	GDP-mannose 4,6 dehydratase 1	2.98
<i>GN1</i>	Lichenase	-1.75
<i>GOLS2</i>	Galactinol synthase 2	-1.23
<i>GPD3</i>	Glyceraldehyde-3-phosphate dehydrogenase 3	2.24
<i>GSVIVT</i> <i>00026920001</i>	Probable polygalacturonase	1.15
<i>Gyg1</i>	Glycogenin-1	-1.24
<i>INVA</i>	Acid beta-fructofuranosidase	2.29
<i>INVF</i>	Probable alkaline/neutral invertase F	1.35
<i>IRX7</i>	Probable glucuronoxylan glucuronosyltransferase IRX7	1.46
<i>IRX15</i>	Protein IRREGULAR XYLEM 15	-1.28
<i>LDHA</i>	L-lactate dehydrogenase B	2.56
<i>LDHA</i>	L-lactate dehydrogenase A	3.14
<i>LDHA</i>	L-lactate dehydrogenase A chain	-8.19
<i>ldhba</i>	L-lactate dehydrogenase B-A chain	9.98
<i>MAN5</i>	Mannan endo-1,4-beta-mannosidase 5	1.72
<i>Mat2a</i>	S-adenosylmethionine synthase isoform type-2	9.45
<i>MIOX1</i>	Inositol oxygenase 1	-2.64
<i>MUR1</i>	GDP-mannose 4,6 dehydratase 2	3.21
<i>MSR2</i>	Protein MANNAN SYNTHESIS-RELATED 2	1.24
<i>NANA</i>	Aspartic proteinase NANA, chloroplast	-3.64
<i>OFUT20</i>	O-fucosyltransferase 20	-2.53
<i>OFUT23</i>	O-fucosyltransferase 23	-1.86
<i>OFUT27</i>	O-fucosyltransferase 27	-1.19
<i>OFUT35</i>	O-fucosyltransferase 35	1.14
<i>OFUT9</i>	O-fucosyltransferase 9	1.16

<i>PF14_0425</i>	Fructose-bisphosphate aldolase	3.54
<i>pfk1</i>	ATP-dependent 6-phosphofructokinase	2.16
<i>PFK3</i>	ATP-dependent 6-phosphofructokinase 3	3.26
<i>PGK1</i>	Phosphoglycerate kinase 1	-8.29
<i>PGAM1</i>	Phosphoglycerate mutase 1	-8.57
<i>PGMP</i>	Phosphoglucomutase, chloroplastic	-1.70
<i>PKM</i>	Pyruvate kinase PKM	-10.01
<i>PMI2</i>	Mannose-6-phosphate isomerase 2	1.61
<i>pyk1</i>	Pyruvate kinase	1.71
<i>RFS2</i>	Probable galactinol--sucrose galactosyltransferase 2	1.76
<i>RFS5</i>	Probable galactinol--sucrose galactosyltransferase 5	-1.56
<i>RFS6</i>	Probable galactinol--sucrose galactosyltransferase 6	2.85
<i>SBE2.2</i>	1,4-alpha-glucan-branching enzyme 2-2, chloroplastic/amyloplastic	-1.79
<i>SETH3</i>	Probable arabinose 5-phosphate isomerase	8.82
<i>sgl</i>	UDP-glucose 6-dehydrogenase	8.35
<i>SS2</i>	Granule-bound starch synthase 2, chloroplastic/amyloplastic	4.06
<i>tal</i>	Transaldolase	2.51
<i>tal</i>	Transaldolase	1.76
<i>TBL33</i>	Protein trichome birefringence-like 33	1.44
<i>Tkfc</i>	Triokinase/FMN cyclase	1.21
<i>TPPF</i>	Probable trehalose-phosphate phosphatase F	2.27
<i>TPPJ</i>	Probable trehalose-phosphate phosphatase J	2.48
<i>TPS11</i>	Probable alpha,alpha-trehalose-phosphate synthase [UDP-forming] 11	3.34
<i>TPS7</i>	Probable alpha,alpha-trehalose-phosphate synthase [UDP-forming] 7	-1.40
<i>TPS9</i>	Probable alpha,alpha-trehalose-phosphate synthase [UDP-forming] 9	8.76
<i>UGP1</i>	UTP--glucose-1-phosphate uridylyltransferase 1	2.80
<i>UGT71A15</i>	UDP-glycosyltransferase 71A15	2.93
<i>UGT73B1</i>	UDP-glycosyltransferase 73B1	3.50
<i>UGT73B5</i>	UDP-glycosyltransferase 73B5	4.69
<i>UGT74C1</i>	UDP-glycosyltransferase 74C1	-3.17
<i>UGT85A24</i>	7-deoxyloganetin glucosyltransferase	-4.34
<i>UGT87A1</i>	UDP-glycosyltransferase 87A1	-1.80
<i>UGT88F5</i>	UDP-glycosyltransferase 88F5	-1.49
<i>UGT89A2</i>	UDP-glycosyltransferase 89A2	-1.40
<i>UGT94E5</i>	Beta-D-glucosyl crocetin beta-1,6-glucosyltransferase	-7.26
<i>USP</i>	UDP-sugar pyrophosphorylase	1.05
<i>UXS3</i>	UDP-glucuronic acid decarboxylase 3	3.65
<i>xlnA</i>	Endo-1,4-beta-xylanase A	1.81
<i>XTH18</i>	Probable xyloglucan endotransglucosylase/hydrolase protein 18	1.88
<i>XTH22</i>	Xyloglucan endotransglucosylase/hydrolase protein 22	2.78
<i>XTH23</i>	Probable xyloglucan endotransglucosylase/hydrolase protein 23	3.22
<i>XTH27</i>	Probable xyloglucan endotransglucosylase/hydrolase protein 27	2.69
<i>XTH30</i>	Probable xyloglucan endotransglucosylase/hydrolase protein 30	-3.79
<i>XTH32</i>	Probable xyloglucan endotransglucosylase/hydrolase protein 32	2.07
<i>XTH9</i>	Xyloglucan endotransglucosylase/hydrolase protein 9	3.04
<i>XXT3</i>	Probable xyloglucan 6-xylosyltransferase 3	2.71
<i>N/A</i>	2,3-bisphosphoglycerate-dependent phosphoglycerate mutase	-1.31
Lipids metabolism		
<i>N/A</i>	Lipase	1.01
<i>AAE18</i>	Probable acyl-activating enzyme 18, peroxisomal	-1.33

<i>accD</i>	Acetyl-coenzyme A carboxylase carboxyl transferase subunit beta, chloroplastic	-1.03
<i>accD</i>	Acetyl-coenzyme A carboxylase carboxyl transferase subunit beta, chloroplastic	-1.08
<i>ACL1.1</i>	Acyl carrier protein 1, chloroplastic	-1.57
<i>ACX3</i>	Acyl-coenzyme A oxidase 3, peroxisomal	-2.09
<i>ACX4</i>	Acyl-coenzyme A oxidase 4, peroxisomal	3.23
<i>ACLB-2</i>	ATP-citrate synthase beta chain protein 2	-1.04
<i>APA1</i>	Aspartic proteinase A1	1.72
<i>APG</i>	GDSL esterase/lipase APG	6.15
<i>AT1</i>	Long-chain-alcohol O-fatty-acyltransferase	-2.53
<i>At1g06800</i>	Phospholipase A1-Igamma1, chloroplastic	4.56
<i>At1g11820</i>	Glucan endo-1,3-beta-glucosidase 1	2.09
<i>At1g54790</i>	GDSL esterase/lipase At1g54790	-1.14
<i>At1g71691</i>	GDSL esterase/lipase At1g71691	6.37
<i>At3g26430</i>	GDSL esterase/lipase At3g26430	-9.34
<i>At3g48460</i>	GDSL esterase/lipase At3g48460	-3.07
<i>At4g16820</i>	Phospholipase A1-Ibeta2, chloroplastic	-4.78
<i>At4g18970</i>	GDSL esterase/lipase At4g18970	4.00
<i>At4g26790</i>	GDSL esterase/lipase At4g26790	2.97
<i>At5g03610</i>	GDSL esterase/lipase At5g03610	1.06
<i>At5g33370</i>	GDSL esterase/lipase At5g33370	5.36
<i>At5g41890</i>	GDSL esterase/lipase At5g41890	2.52
<i>At5g42170</i>	GDSL esterase/lipase At5g42170	-1.14
<i>At5g67130</i>	PI-PLC X domain-containing protein At5g67130	-1.82
<i>CLS</i>	Cardiolipin synthase (CMP-forming), mitochondrial	1.79
<i>CPRD49</i>	GDSL esterase/lipase CPRD49	2.23
<i>CUT1</i>	3-ketoacyl-CoA synthase 6	1.44
<i>CYP86A2</i>	Cytochrome P450 86A2	4.23
<i>DCI1</i>	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, peroxisomal	-1.03
<i>DGAT1C</i>	Diacylglycerol O-acyltransferase 1C	-3.71
<i>ECI2</i>	Enoyl-CoA delta isomerase 2, peroxisomal	3.94
<i>FAB2</i>	Stearoyl-[acyl-carrier-protein] 9-desaturase, chloroplastic	3.30
<i>fabG</i>	3-oxoacyl-[acyl-carrier-protein] reductase FabG	4.84
<i>FABP3</i>	Fatty acid-binding protein, heart	9.18
<i>FAD2</i>	Omega-6 fatty acid desaturase, endoplasmic reticulum	2.09
<i>FAD6</i>	Omega-6 fatty acid desaturase, chloroplastic	8.52
<i>FAD6</i>	Omega-6 fatty acid desaturase, chloroplastic	9.09
<i>FAD6</i>	Omega-6 fatty acid desaturase, chloroplastic	9.22
<i>FAD7</i>	sn-2 acyl-lipid omega-3 desaturase (ferredoxin), chloroplastic	-2.82
<i>FAD7A-1</i>	Omega-3 fatty acid desaturase, chloroplastic	-2.03
<i>FAH1</i>	Dihydroceramide fatty acyl 2-hydroxylase FAH1	2.17
<i>FAR2</i>	Fatty acyl-CoA reductase 2	-1.49
<i>FAR3</i>	Fatty acyl-CoA reductase 3	-1.71
<i>FDH</i>	3-ketoacyl-CoA synthase 10	3.11
<i>GDPDL7</i>	Glycerophosphodiester phosphodiesterase GDPDL7	1.32
<i>HACL</i>	2-hydroxyacyl-CoA lyase	4.51
<i>INPS1</i>	Inositol-3-phosphate synthase	1.39
<i>KCS1</i>	3-ketoacyl-CoA synthase 1	3.18
<i>KCS11</i>	3-ketoacyl-CoA synthase 11	-1.50
<i>KCS20</i>	3-ketoacyl-CoA synthase 20	-1.87

<i>LACS2</i>	Long chain acyl-CoA synthetase 2	1.90
<i>LACS4</i>	Long chain acyl-CoA synthetase 4	2.14
<i>LAG2</i>	LAG1 longevity assurance homolog 2	1.13
<i>lip</i>	Lipase	1.67
<i>LIP1</i>	Triacylglycerol lipase 1	1.13
<i>LPAT4</i>	Probable 1-acyl-sn-glycerol-3-phosphate acyltransferase 4	-1.66
<i>LYPLA1</i>	Acyl-protein thioesterase 1	-1.32
<i>MFP2</i>	Glyoxysomal fatty acid beta-oxidation multifunctional protein MFP-a	-1.59
<i>MTACP1</i>	Acyl carrier protein 1, mitochondrial	1.68
<i>MTM1</i>	Phosphatidylinositol-3-phosphatase myotubularin-1	-2.25
<i>NADP-ME2</i>	NADP-dependent malic enzyme	-1.00
<i>NADP-ME4</i>	NADP-dependent malic enzyme 4, chloroplastic	4.61
<i>PAS2A</i>	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase PASTICCINO 2A	-1.40
<i>PED1</i>	3-ketoacyl-CoA thiolase 2, peroxisomal	2.62
<i>PLC6</i>	Phosphoinositide phospholipase C 6	1.97
<i>PLDDELTA</i>	Phospholipase D delta	1.47
<i>PLP2</i>	Patatin-like protein 2	3.08
<i>PLP9</i>	Probable inactive patatin-like protein 9	1.33
<i>SDRA</i>	Short-chain dehydrogenase/reductase SDRA	5.15
<i>SEI1</i>	Seipin-1	-1.96
<i>SLD2</i>	Acyl-lipid (9-3)-desaturase	1.33
<i>WRI1</i>	Ethylene-responsive transcription factor WRI1	-3.65
Amino acids metabolism		
<i>3-Apr</i>	5'-adenylylsulfate reductase 3, chloroplastic	1.31
<i>ADT3</i>	Arogenate dehydratase 3, chloroplastic	-1.15
<i>AGT1</i>	Serine--glyoxylate aminotransferase	9.13
<i>ALAAT1</i>	Alanine aminotransferase 1, mitochondrial	3.36
<i>ARGAH1</i>	Arginase 1, mitochondrial	8.29
<i>ASK5</i>	Shaggy-related protein kinase epsilon	-1.69
<i>ASN1</i>	Asparagine synthetase [glutamine-hydrolyzing] 1	1.49
<i>ASP1</i>	Aspartate aminotransferase, mitochondrial	-1.03
<i>ASP1</i>	Aspartic proteinase Asp1	1.10
<i>ASP2</i>	Aspartate aminotransferase, cytoplasmic isozyme 1	2.28
<i>ASP3</i>	Aspartate aminotransferase 3, chloroplastic	1.06
<i>ASPG1</i>	Protein ASPARTIC PROTEASE IN GUARD CELL 1	1.27
<i>At4g29120</i>	Probable 3-hydroxyisobutyrate dehydrogenase-like 1, mitochondrial	4.11
<i>BCAT2</i>	Branched-chain-amino-acid aminotransferase 2, chloroplastic	-1.74
<i>BCDH</i>	2-oxoisovalerate dehydrogenase subunit beta 1, mitochondrial	3.71
<i>CM1</i>	Chorismate mutase 1, chloroplastic	-2.25
<i>CM2</i>	Chorismate mutase 2	-1.22
<i>CS1</i>	Chorismate synthase 1, chloroplastic	-1.28
<i>ctps</i>	CTP synthase	3.55
<i>DHAPS-1</i>	Phospho-2-dehydro-3-deoxyheptonate aldolase 2, chloroplastic	-1.05
<i>DHDPS2</i>	4-hydroxy-tetrahydrodipicolinate synthase 2, chloroplastic	3.55
<i>DHS1</i>	Phospho-2-dehydro-3-deoxyheptonate aldolase 1, chloroplastic	2.65
<i>EMB3004</i>	Bifunctional 3-dehydroquinate dehydratase/shikimate dehydrogenase, chloroplastic	5.49
<i>GAD1</i>	Glutamate decarboxylase 1	2.07
<i>GDCST</i>	Aminomethyltransferase, mitochondrial	1.49
<i>GDH2</i>	Glycine cleavage system H protein 2, mitochondrial	1.02

<i>GDH2</i>	Glutamate dehydrogenase 2	2.99
<i>GEK1</i>	D-aminoacyl-tRNA deacylase	4.96
<i>GGAT1</i>	Glutamate--glyoxylate aminotransferase 1	4.16
<i>GGH3</i>	Probable gamma-glutamyl hydrolase 3	-1.02
<i>GGT3</i>	Glutathione hydrolase 3	-3.17
<i>GLN1-2</i>	Glutamine synthetase cytosolic isozyme 1-2	-3.94
<i>GLT1</i>	Glutamate synthase 1 [NADH], chloroplastic	2.70
<i>GS1-1</i>	Glutamine synthetase cytosolic isozyme 1	-1.38
<i>GS1-2</i>	Glutamine synthetase nodule isozyme	2.21
<i>GSH2</i>	Glutathione synthetase, chloroplastic	1.17
<i>GSTU10</i>	Glutathione S-transferase U10	5.55
<i>GSTU19</i>	Glutathione S-transferase U19	2.39
<i>GSTU8</i>	Glutathione S-transferase U8	4.52
<i>HGO</i>	Homogentisate 1,2-dioxygenase	3.15
<i>HISN3</i>	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]imidazole-4-carboxamide isomerase, chloroplastic	-1.33
<i>HISN7</i>	Bifunctional phosphatase IMPL2, chloroplastic	-1.58
<i>HMGCL</i>	Hydroxymethylglutaryl-CoA lyase, mitochondrial	1.37
<i>HMT1</i>	Homocysteine S-methyltransferase 1	4.13
<i>ilv-2</i>	Ketol-acid reductoisomerase, mitochondrial	4.05
<i>IPMS1</i>	2-isopropylmalate synthase 1, chloroplastic	3.11
<i>ISS1</i>	Aromatic aminotransferase ISS1	-1.85
<i>IVD</i>	Isovaleryl-CoA dehydrogenase, mitochondrial	8.93
<i>LCD</i>	L-cysteine desulfhydrase	8.27
<i>LIP1</i>	Lipoyl synthase, mitochondrial	3.48
<i>lys3</i>	Saccharopine dehydrogenase [NAD(+), L-lysine-forming]	4.18
<i>MCCB</i>	Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial	8.93
<i>NAA10</i>	N-terminal acetyltransferase A complex catalytic subunit NAA10	2.13
<i>NMT1</i>	Glycylpeptide N-tetradecanoyltransferase 1	1.41
<i>NMT2</i>	Phosphomethylethanolamine N-methyltransferase	1.74
<i>NSFBx</i>	Probable F-box protein At5g04010	9.23
<i>OXP1</i>	5-oxoprolinase	-1.20
<i>P4H2</i>	Prolyl 4-hydroxylase 2	3.07
<i>P4H3</i>	Probable prolyl 4-hydroxylase 3	3.10
<i>P5CS</i>	Delta-1-pyrroline-5-carboxylate synthase	1.36
<i>P5CSB</i>	Delta-1-pyrroline-5-carboxylate synthase B	3.59
<i>PAL</i>	Phenylalanine ammonia-lyase	-1.19
<i>PCAS-1</i>	Bifunctional L-3-cyanoalanine synthase/cysteine synthase 1, mitochondrial	1.71
<i>PDX13</i>	Pyridoxal 5'-phosphate synthase subunit PDX1.3	4.34
<i>PGDH2</i>	D-3-phosphoglycerate dehydrogenase 2, chloroplastic	2.70
<i>POX2</i>	Proline dehydrogenase 2, mitochondrial	1.40
<i>PYD1</i>	Dihydropyrimidine dehydrogenase (NADP(+)), chloroplastic	1.02
<i>SAMDC4</i>	S-adenosylmethionine decarboxylase proenzyme 4	2.02
<i>serA</i>	D-3-phosphoglycerate dehydrogenase	6.85
<i>SHM1</i>	Serine hydroxymethyltransferase 1, mitochondrial	8.97
<i>SK3</i>	Shikimate kinase 3, chloroplastic	-1.72
<i>TGM2</i>	Protein-glutamine gamma-glutamyltransferase 2	-9.92
<i>THA1</i>	Probable low-specificity L-threonine aldolase 1	4.68
<i>TYRAAT1</i>	Arogenate dehydrogenase 1, chloroplastic	-2.25
<i>TYRDC-2</i>	Tyrosine decarboxylase 2	4.17

Protein metabolism

<i>Acot13</i>	Acyl-coenzyme A thioesterase 13	1.30
<i>AP25</i>	Aspartyl protease 25	1.45
<i>Apoe</i>	Apolipoprotein E	-9.95
<i>At1g17710</i>	Inorganic pyrophosphatase 2	-3.42
<i>At1g55760</i>	BTB/POZ domain-containing protein At1g55760	-1.02
<i>At1g67340</i>	F-box protein At1g67340	1.67
<i>At3g53970</i>	Probable proteasome inhibitor	8.48
<i>At4g03415</i>	Probable protein phosphatase 2C 52	1.05
<i>At4g22670</i>	FAM10 family protein At4g22670	8.44
<i>At5g04500</i>	Glucosamine inositolphosphorylceramide transferase 1	1.95
<i>At5g03795</i>	Probable glycosyltransferase At5g03795	-1.39
<i>At5g17580</i>	BTB/POZ domain-containing protein At5g17580	1.78
<i>At5g48800</i>	BTB/POZ domain-containing protein At5g48800	1.53
<i>ATJ3</i>	Chaperone protein dnaJ 3	2.53
<i>ATL23</i>	E3 ubiquitin-protein ligase ATL23	1.26
<i>ATL4</i>	E3 ubiquitin-protein ligase ATL4	1.72
<i>ATL5</i>	RING-H2 finger protein ATL5	-2.38
<i>ATL54</i>	RING-H2 finger protein ATL54	2.77
<i>ATL64</i>	RING-H2 finger protein ATL64	8.58
<i>ATL65</i>	RING-H2 finger protein ATL65	2.63
<i>ATL72</i>	RING-H2 finger protein ATL72	-1.90
<i>B3GALT12</i>	Probable beta-1,3-galactosyltransferase 12	1.25
<i>B3GALT7</i>	Beta-1,3-galactosyltransferase 7	1.35
<i>BAG5</i>	BAG family molecular chaperone regulator 5, mitochondrial	1.49
<i>BRG3</i>	Probable BOI-related E3 ubiquitin-protein ligase 3	1.85
<i>CCT5</i>	T-complex protein 1 subunit epsilon	3.01
<i>CDC48A</i>	Cell division control protein 48 homolog A	2.83
<i>CDKB1-1</i>	Cyclin-dependent kinase B1-1	1.86
<i>CDKG1</i>	Cyclin-dependent kinase G1	3.40
<i>CDR1</i>	Aspartic proteinase CDR1	1.83
<i>CHIP</i>	E3 ubiquitin-protein ligase CHIP	9.02
<i>CLPB1</i>	Chaperone protein ClpB1	9.68
<i>CLPB4</i>	Chaperone protein ClpB4, mitochondrial	4.54
<i>CLPP5</i>	ATP-dependent Clp protease proteolytic subunit 5, chloroplastic	-2.82
<i>cprG</i>	Cysteine proteinase 7	8.28
<i>CTSC</i>	Dipeptidyl peptidase 1	-8.82
<i>CTSL</i>	Cathepsin L1	8.80
<i>CYP18-1</i>	Peptidyl-prolyl cis-trans isomerase CYP18-1	-2.67
<i>CYPA</i>	Peptidyl-prolyl cis-trans isomerase	10.51
<i>degQ</i>	Periplasmic pH-dependent serine endoprotease DegQ	-1.15
<i>DIS1</i>	E3 ubiquitin-protein ligase DIS1	1.29
<i>DJ1A</i>	Protein DJ-1 homolog A	8.67
<i>dnaJ</i>	Chaperone protein DnaJ	-2.03
<i>DRIP2</i>	E3 ubiquitin protein ligase DRIP2	4.34
<i>EDA2</i>	Probable serine protease EDA2	-1.85
<i>EOGT</i>	EGF domain-specific O-linked N-acetylglucosamine transferase	3.23
<i>EOGT</i>	EGF domain-specific O-linked N-acetylglucosamine transferase	1.01
<i>FKBP65</i>	Peptidyl-prolyl cis-trans isomerase FKBP65	4.88
<i>GALT29A</i>	Beta-1,6-galactosyltransferase GALT29A	-3.71
<i>GT11</i>	Probable xyloglucan galactosyltransferase GT11	1.70

<i>GT17</i>	Probable xyloglucan galactosyltransferase GT17	-1.30
<i>HOP3</i>	Hsp70-Hsp90 organizing protein 3	8.47
<i>HPTG1</i>	Hydroxyproline O-galactosyltransferase HPGT1	-2.33
<i>IGFBP7</i>	Insulin-like growth factor-binding protein 7	-9.46
<i>MMP2</i>	72 kDa type IV collagenase	10.00
<i>NFP</i>	Serine/threonine receptor-like kinase NFP	-2.88
<i>Os03g0144800</i>	Xyloglucan galactosyltransferase KATAMARI1 homolog	1.25
<i>Os04g0670200</i>	Oryzain beta chain	-1.24
<i>PAA2</i>	Proteasome subunit alpha type-6-B	2.61
<i>PDK</i>	[Pyruvate dehydrogenase (acetyl-transferring)] kinase, mitochondrial	1.18
<i>PP2B1</i>	F-box protein PP2-B1	4.84
<i>PPIA</i>	Peptidyl-prolyl cis-trans isomerase A	-10.05
<i>PRMT3</i>	Probable protein arginine N-methyltransferase 3	1.15
<i>PUB25</i>	U-box domain-containing protein 25	3.59
<i>RD19D</i>	Probable cysteine protease RD19D	-1.18
<i>RD21C</i>	Probable cysteine protease RD21C	2.34
<i>RF178</i>	Probable E3 ubiquitin-protein ligase BAH1-like	1.19
<i>RMA1</i>	E3 ubiquitin-protein ligase RMA1	3.59
<i>RMA1H1</i>	E3 ubiquitin-protein ligase RMA1H1	-2.15
<i>RMR2</i>	Receptor homology region, transmembrane domain- and RING domain-containing protein 2	2.62
<i>RPN11</i>	26S proteasome non-ATPase regulatory subunit 14 homolog	2.49
<i>RPN6</i>	26S proteasome non-ATPase regulatory subunit 11 homolog	8.55
<i>SCPL25</i>	Serine carboxypeptidase-like 25	4.76
<i>SCPL29</i>	Serine carboxypeptidase-like 29	-1.49
<i>SCPL31</i>	Serine carboxypeptidase-like 31	-3.64
<i>SCPL40</i>	Serine carboxypeptidase-like 40	-2.82
<i>SCPL45</i>	Serine carboxypeptidase-like 45	1.53
<i>SGR9</i>	E3 ubiquitin-protein ligase SGR9, amyloplastic	3.03
<i>SKIP2</i>	F-box protein SKIP2	3.55
<i>SKIP32</i>	F-box protein 7	-1.07
<i>SMXL3</i>	Protein SMAX1-LIKE 3	1.29
<i>SMXL4</i>	Protein SMAX1-LIKE 4	2.01
<i>TUN</i>	UDP-glycosyltransferase TURAN	-1.54
<i>UBC</i>	Polyubiquitin-C	-3.83
<i>UBC1</i>	Ubiquitin-conjugating enzyme E2 1	2.81
<i>UBC10</i>	Ubiquitin-conjugating enzyme E2 10	2.46
<i>UBC11</i>	Ubiquitin-conjugating enzyme E2 11	3.56
<i>UBC16</i>	Probable ubiquitin-conjugating enzyme E2 16	-1.73
<i>UBC19</i>	Ubiquitin-conjugating enzyme E2 19	3.32
<i>UBC36</i>	Ubiquitin-conjugating enzyme E2 36	-1.38
<i>UBC9</i>	SUMO-conjugating enzyme UBC9	2.05
<i>UBQ10</i>	Polyubiquitin 10	5.39
<i>XB3</i>	E3 ubiquitin-protein ligase XB3	2.73
Nucleic acid metabolism		
<i>AAH</i>	Allantoate deiminase	3.44
<i>AAH2</i>	Allantoate deiminase 2	-1.29
<i>CSLA9</i>	Glucomannan 4-beta-mannosyltransferase 9	1.37
<i>CTGF</i>	CCN family member 2	-9.94
<i>DUT</i>	Deoxyuridine 5'-triphosphate nucleotidohydrolase	2.00
<i>TK1A</i>	Thymidine kinase a	1.52

<i>PAB2</i>	Polyadenylate-binding protein 2	2.74
<i>qtrt1</i>	Queuine tRNA-ribosyltransferase catalytic subunit 1	1.79
<i>RNR1</i>	Ribonucleoside-diphosphate reductase large subunit	1.20
<i>RNS2</i>	Ribonuclease 2	2.84
<i>TSO2</i>	Ribonucleoside-diphosphate reductase small chain C	1.79
<i>txn</i>	Thioredoxin	9.32
<i>XRN3</i>	5'-3' exoribonuclease 3	-11.92
Others		
<i>ABHD17B</i>	Alpha/beta hydrolase domain-containing protein 17B	1.62
<i>abhd17c</i>	Alpha/beta hydrolase domain-containing protein 17C	3.89
<i>AKR1</i>	Probable aldo-keto reductase 1	-2.76
<i>AKR4C11</i>	Aldose reductase	-2.89
<i>AMPD</i>	AMP deaminase	1.17
<i>AS</i>	Hydroquinone glucosyltransferase	-1.50
<i>ASAT1</i>	Acyl-CoA--sterol O-acyltransferase 1	-3.88
<i>At1g08940</i>	Phosphoglycerate mutase-like protein AT74H	4.44
<i>At1g30700</i>	Berberine bridge enzyme-like 8	2.40
<i>At2g26230</i>	Uricase	3.25
<i>At3g03980</i>	NADPH-dependent aldehyde reductase-like protein, chloroplastic	3.38
<i>At3g16150</i>	Probable isoaspartyl peptidase/L-asparaginase 2	3.18
<i>At3g50280</i>	Uncharacterized acetyltransferase At3g50280	-1.07
<i>At4g17486</i>	DeSI-like protein At4g17486	9.99
<i>At4g20840</i>	Berberine bridge enzyme-like 21	-2.87
<i>At4g33920</i>	Probable protein phosphatase 2C 63	4.12
<i>At5g06060</i>	Tropinone reductase homolog At5g06060	-2.85
<i>At5g07800</i>	Flavin-containing monooxygenase FMO GS-OX-like 9	1.20
<i>At5g08100</i>	Isoaspartyl peptidase/L-asparaginase	3.44
<i>At5g34940</i>	Heparanase-like protein 3	2.35
<i>At5g61250</i>	Heparanase-like protein 2	2.67
<i>At5g37990</i>	Probable S-adenosylmethionine-dependent methyltransferase At5g37990	-1.49
<i>BFRUCT3</i>	Acid beta-fructofuranosidase 3, vacuolar	2.80
<i>BH0283</i>	Uncharacterized isomerase BH0283	2.86
<i>BTG-26</i>	Aldehyde dehydrogenase family 7 member A1	3.11
<i>CCT1</i>	Choline-phosphate cytidyltransferase 1	4.07
<i>CDA1</i>	Cytidine deaminase 1	1.23
<i>CEQORH</i>	Chloroplast envelope quinone oxidoreductase homolog	1.08
<i>CER1</i>	Very-long-chain aldehyde decarbonylase CER1	5.86
<i>clpP</i>	ATP-dependent Clp protease proteolytic subunit	-9.28
<i>COAE</i>	Dephospho-CoA kinase	1.07
<i>CST3</i>	Cystatin	9.58
<i>CST3</i>	Cystatin-C	-10.53
<i>CXE17</i>	Probable carboxylesterase 17	-1.96
<i>DBR</i>	2-alkenal reductase (NADP(+)-dependent)	2.28
<i>CYP73A5</i>	Trans-cinnamate 4-monooxygenase	2.13
<i>CYP81E8</i>	Cytochrome P450 81E8	1.55
<i>CYP82A3</i>	Cytochrome P450 82A3	-2.50
<i>CYSEP</i>	Vignain	1.32
<i>DIM</i>	Delta(24)-sterol reductase	1.17
<i>DOG1</i>	DELAY OF GERMINATION 1	1.93
<i>F3H-3</i>	Flavanone 3-dioxygenase 3	2.68

<i>FXG1</i>	Alpha-L-fucosidase 3	-3.11
<i>GAPN</i>	NADP-dependent glyceraldehyde-3-phosphate dehydrogenase	-1.18
<i>Gba2</i>	Non-lysosomal glucosylceramidase	1.08
<i>GLCNAC1PUT1</i>	UDP-N-acetylglucosamine diphosphorylase 1	1.37
<i>GLCAT14A</i>	Beta-glucuronosyltransferase GlcAT14A	-1.10
<i>GLOX</i>	Aldehyde oxidase GLOX	-1.46
<i>GPX6</i>	Probable phospholipid hydroperoxide glutathione peroxidase 6, mitochondrial	2.48
<i>GRXC9</i>	Glutaredoxin-C9	13.18
<i>GT6</i>	UDP-glucose flavonoid 3-O-glucosyltransferase 6	7.66
<i>guaA</i>	Probable GMP synthase [glutamine-hydrolyzing]	1.83
<i>HAL3A</i>	Phosphopantothenoylcysteine decarboxylase	2.33
<i>Hdh3</i>	Haloacid dehalogenase-like hydrolase domain-containing protein 3	3.48
<i>HPPR</i>	Hydroxyphenylpyruvate reductase	4.39
<i>hsp90ab1</i>	Heat shock protein HSP 90-beta	10.04
<i>HST</i>	Shikimate O-hydroxycinnamoyltransferase	1.16
<i>ICL</i>	Isocitrate lyase	3.47
<i>KTI2</i>	Miraculin	-2.47
<i>LARP1A</i>	La-related protein 1A	4.26
<i>LECRK1</i>	G-type lectin S-receptor-like serine/threonine-protein kinase LECRK1	1.97
<i>LGALS1</i>	Galectin-1	-9.97
<i>LGALS1</i>	Beta-galactoside-binding lectin	10.96
<i>LUG</i>	Transcriptional corepressor LEUNIG	-1.74
<i>LUH</i>	Transcriptional corepressor LEUNIG_HOMOLOG	2.77
<i>maa</i>	Probable maltose O-acetyltransferase	1.75
<i>MLS</i>	Malate synthase, glyoxysomal	-5.23
<i>NDB2</i>	External alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial	-2.49
<i>NUDT17</i>	Nudix hydrolase 17, mitochondrial	-4.39
<i>OMT3</i>	Probable O-methyltransferase 3	-4.60
<i>OsI_27030</i>	1-Cys peroxiredoxin	-2.08
<i>P2A12</i>	F-box protein PP2-A12	-1.11
<i>PDCB2</i>	PLASMODESMATA CALLOSE-BINDING PROTEIN 2	1.14
<i>PEC-2</i>	Thioredoxin H-type	2.01
<i>PER52</i>	Peroxidase 52	-3.30
<i>PLL5</i>	Probable protein phosphatase 2C 4	-1.57
<i>PTEN1</i>	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN1	-1.46
<i>PUX4</i>	Plant UBX domain-containing protein 4	-1.78
<i>Pyroxd2</i>	Pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2	2.24
<i>PYROXD2</i>	Pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2	1.22
<i>QCT</i>	Glutaminyl-peptide cyclotransferase	1.17
<i>RBL5</i>	RHOMBOID-like protein 5	-1.70
<i>RCOM_0699480</i>	Glycosyltransferase family 92 protein RCOM_0530710	1.17
<i>ROD1</i>	Phosphatidylcholine:diacylglycerol cholinephosphotransferase 1	1.76
<i>SBT1.3</i>	Subtilisin-like protease SBT1.3	-3.11
<i>SDH6</i>	Succinate dehydrogenase subunit 6, mitochondrial	-6.11
<i>SEN102</i>	Thiol protease SEN102	2.06
<i>SERPINB6</i>	Serpin B6	10.35

<i>SERPINH1</i>	Serpin H1	-8.95
<i>SQD1</i>	UDP-sulfoquinovose synthase, chloroplastic	1.16
<i>SSL10</i>	Protein STRICTOSIDINE SYNTHASE-LIKE 10	1.61
<i>STR17</i>	Rhodanese-like domain-containing protein 17	2.81
<i>TBL39</i>	Protein trichome birefringence-like 39	1.43
<i>TBL6</i>	Protein trichome birefringence-like 6	-1.20
<i>TKL-1</i>	Transketolase-1, chloroplastic	8.92
<i>TOGT1</i>	Scopoletin glucosyltransferase	-1.21
<i>TPP1</i>	Thylakoidal processing peptidase 1, chloroplastic	3.33
<i>UREG</i>	Urease accessory protein G	2.92

Table S3. Transport genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Transmembrane transport		
<i>ABCB19</i>	ABC transporter B family member 19	4.07
<i>ABCB2</i>	ABC transporter B family member 2	-1.18
<i>ABCB9</i>	ABC transporter B family member 9	2.47
<i>ABCC10</i>	ABC transporter C family member 10	-1.79
<i>ABCC3</i>	ABC transporter C family member 3	-2.09
<i>ABCF1</i>	ABC transporter F family member 1	-1.25
<i>ABCG1</i>	ABC transporter G family member 1	1.14
<i>ABCG15</i>	ABC transporter G family member 15	2.03
<i>ABCG31</i>	ABC transporter G family member 31	4.35
<i>ABCG35</i>	ABC transporter G family member 35	-2.86
<i>ABCG39</i>	ABC transporter G family member 39	-1.33
<i>ABCG39</i>	ABC transporter G family member 39	-1.87
<i>ABCG5</i>	ABC transporter G family member 5	2.61
<i>ABCG51</i>	ABC transporter G family member 51	-1.59
<i>ABCG9</i>	ABC transporter G family member 9	1.64
<i>ACA12</i>	Calcium-transporting ATPase 12, plasma membrane-type	9.37
<i>ACT1</i>	Actin-1	1.80
<i>ACTA1</i>	Actin, alpha skeletal muscle	-11.81
<i>actba</i>	Actin, cytoplasmic 1	3.86
<i>ACTG1</i>	Actin, cytoplasmic 2	-3.46
<i>ACTG2</i>	Actin, alpha cardiac muscle 2	-5.96
<i>AHA4</i>	ATPase 4, plasma membrane-type	3.77
<i>AHA6</i>	ATPase 6, plasma membrane-type	-3.40
<i>AHA9</i>	ATPase 9, plasma membrane-type	-1.22
<i>ANT1</i>	ADP,ATP carrier protein 1, mitochondrial	1.10
<i>At1g09380</i>	WAT1-related protein At1g09380	8.96
<i>At4g08290</i>	WAT1-related protein At4g08290	-9.03
<i>At4g08300</i>	WAT1-related protein At4g08300	11.94
<i>At5g47470</i>	WAT1-related protein At5g47470	-1.77
<i>At5g57480</i>	AAA-ATPase At5g57480	2.76
<i>BOR1</i>	Boron transporter 1	1.87
<i>BOR3</i>	Probable boron transporter 3	2.04
<i>BOR4</i>	Boron transporter 4	2.28
<i>BOR6</i>	Probable boron transporter 6	4.20
<i>DDB_G0281815</i>	Golgi to ER traffic protein 4 homolog	1.33
<i>DIT1</i>	Dicarboxylate transporter 1, chloroplastic	-1.13
<i>DTX25</i>	Protein DETOXIFICATION 25	-1.96
<i>DTX28</i>	Protein DETOXIFICATION 28	-3.22
<i>DTX29</i>	Protein DETOXIFICATION 29	-1.33
<i>DTX31</i>	Protein DETOXIFICATION 31	-6.16
<i>DTX33</i>	Protein DETOXIFICATION 33	-1.07
<i>DTX40</i>	Protein DETOXIFICATION 40	-3.41
<i>DTX42</i>	Protein DETOXIFICATION 42	-1.04
<i>DTX48</i>	Protein DETOXIFICATION 48	3.40
<i>DTX49</i>	Protein DETOXIFICATION 49	-5.37
<i>DTX55</i>	Protein DETOXIFICATION 55	2.45

<i>EXO84A</i>	Exocyst complex component EXO84A	1.06
<i>NDT1</i>	Nicotinamide adenine dinucleotide transporter 1, chloroplastic	-8.15
<i>PDR1</i>	Pleiotropic drug resistance protein 1	-2.52
<i>SAR1A</i>	GTP-binding protein SAR1A	3.11
<i>SAR1B</i>	GTP-binding protein SAR1B	2.89
<i>sec14</i>	Sec14 cytosolic factor	2.34
<i>Slc25a3</i>	Phosphate carrier protein, mitochondrial	10.10
<i>SLC25A3</i>	Phosphate carrier protein, mitochondrial	8.86
<i>SULTR3;4</i>	Probable sulfate transporter 3.4	1.99
<i>SULTR3;5</i>	Probable sulfate transporter 3.5	-2.53
<i>VTI11</i>	Vesicle transport v-SNARE 11	4.51
<i>VTI13</i>	Vesicle transport v-SNARE 13	-2.38
Carbohydrate transport		
<i>At1g67300</i>	Probable plastidic glucose transporter 2	1.12
<i>At1g75220</i>	Sugar transporter ERD6-like 6	1.21
<i>At1g78830</i>	EP1-like glycoprotein 2	4.00
<i>At1g78850</i>	EP1-like glycoprotein 3	3.56
<i>At4g32390</i>	Probable sugar phosphate/phosphate translocator At4g32390	2.19
<i>At5g11230</i>	Probable sugar phosphate/phosphate translocator At5g11230	-4.17
<i>EP1</i>	Epidermis-specific secreted glycoprotein EP1	-5.42
<i>ERD6</i>	Sugar transporter ERD6	2.47
<i>EULS3</i>	Ricin B-like lectin EULS3	4.42
<i>MST1</i>	Sugar transport protein MST1	-1.09
<i>PLT5</i>	Polyol transporter 5	-2.31
<i>PLT6</i>	Probable polyol transporter 6	-1.92
<i>slc37a2</i>	Glucose-6-phosphate exchanger SLC37A2	-3.84
<i>slc37a2</i>	Glucose-6-phosphate exchanger SLC37A2	3.05
<i>Slc37a2</i>	Glucose-6-phosphate exchanger SLC37A2	-1.13
<i>STP1</i>	Sugar transport protein 1	8.84
<i>STP12</i>	Sugar transport protein 12	5.61
<i>STP13</i>	Sugar transport protein 13	3.28
<i>STP5</i>	Sugar transport protein 5	-1.29
<i>SWEET12</i>	Bidirectional sugar transporter SWEET12	-2.05
<i>SWEET14</i>	Bidirectional sugar transporter SWEET14	1.57
<i>SWEET15</i>	Bidirectional sugar transporter SWEET15	9.57
<i>SWEET5</i>	Bidirectional sugar transporter SWEET5	2.05
<i>UXT2</i>	UDP-xylose transporter 2	1.71
<i>UXT3</i>	UDP-xylose transporter 3	-1.82
lipid transport		
<i>N/A</i>	Non-specific lipid-transfer protein	2.88
<i>AATL1</i>	Lysine histidine transporter-like 8	3.11
<i>ABCA2</i>	ABC transporter A family member 2	-3.19
<i>ABCA7</i>	ABC transporter A family member 7	-1.76
<i>ALA2</i>	Phospholipid-transporting ATPase 2	1.91
<i>ALIS1</i>	ALA-interacting subunit 1	4.45
<i>LTP10</i>	Non-specific lipid-transfer protein 3	3.41
<i>LTPG1</i>	Non-specific lipid transfer protein GPI-anchored 1	3.17
<i>MALD3</i>	Non-specific lipid-transfer protein	4.55
<i>PATL4</i>	Patellin-4	2.03
<i>PEX13</i>	Peroxisomal membrane protein 13	8.74
<i>PEX6</i>	Peroxisome biogenesis protein 6	-1.94

<i>SCA</i>	Non-specific lipid-transfer protein	2.52
<i>SYT4</i>	Synaptotagmin-4	1.38
<i>SYT5</i>	Synaptotagmin-5	3.27
Amino acid transport		
<i>AAP2</i>	Amino acid permease 2	2.54
<i>AAP3</i>	Amino acid permease 3	-1.06
<i>ANT1</i>	Amino acid transporter ANT1	4.49
<i>At1g25530</i>	Lysine histidine transporter-like 6	9.12
<i>At2g39510</i>	WAT1-related protein At2g39510	3.55
<i>AVT1H</i>	Amino acid transporter AVT1H	-1.23
<i>AVT6A</i>	Amino acid transporter AVT6A	-1.05
<i>CAT1</i>	Cationic amino acid transporter 1	1.93
<i>CAT7</i>	Cationic amino acid transporter 7, chloroplastic	1.37
<i>LHT1</i>	Lysine histidine transporter 1	-4.53
<i>YPQ1</i>	Probable vacuolar amino acid transporter YPQ1	-1.18
Protein transport		
<i>14-3-3zeta</i>	14-3-3 protein zeta	9.50
<i>AHB1</i>	Non-symbiotic hemoglobin 1	3.40
<i>ahsa</i>	Activator of 90 kDa heat shock protein ATPase homolog	3.83
<i>AKR2A</i>	Ankyrin repeat domain-containing protein 2A	3.44
<i>AP2M1</i>	AP-2 complex subunit mu	9.22
<i>AP3BA</i>	AP3-complex subunit beta-A	-8.68
<i>ARF2-A</i>	ADP-ribosylation factor 2-A	3.67
<i>ASNAP2</i>	Alpha-soluble NSF attachment protein 2	2.47
<i>At1g21900</i>	Transmembrane emp24 domain-containing protein p24delta5	2.75
<i>At3g09030</i>	BTB/POZ domain-containing protein At3g09030	-1.01
<i>At3g13860</i>	Chaperonin CPN60-like 2, mitochondrial	1.04
<i>At5g01750</i>	Protein LURP-one-related 15	3.29
<i>ATG1C</i>	Serine/threonine-protein kinase ATG1c	1.01
<i>ATG8F</i>	Autophagy-related protein 8f	-1.02
<i>CHC1</i>	Clathrin heavy chain 1	3.25
<i>CLC2</i>	Clathrin light chain 2	2.99
<i>GF14B</i>	14-3-3-like protein B	1.15
<i>GF14C</i>	14-3-3-like protein GF14-C	-3.76
<i>GRF12</i>	14-3-3-like protein GF14 iota	1.16
<i>HSPB1</i>	Heat shock protein beta-1	-10.39
<i>IMPA1</i>	Importin subunit alpha-1	1.22
<i>KEU</i>	SNARE-interacting protein KEULE	3.38
<i>KN</i>	Syntaxin-related protein KNOLLE	3.06
<i>MON1</i>	Vacuolar fusion protein MON1 homolog	-1.06
<i>MSBP2</i>	Membrane steroid-binding protein 2	-1.46
<i>naca</i>	Nascent polypeptide-associated complex subunit alpha	10.66
<i>NACA</i>	Nascent polypeptide-associated complex subunit alpha	-7.51
<i>NBR1</i>	Protein NBR1 homolog	5.11
<i>NTF2A</i>	Nuclear transport factor 2A	2.09
<i>NTF2B</i>	Nuclear transport factor 2B	2.39
<i>OEP16</i>	Outer envelope pore protein 16, chloroplastic	-2.06
<i>OEP163</i>	Outer envelope pore protein 16-3, chloroplastic/mitochondrial	8.32
<i>Os12g0104800</i>	Clathrin heavy chain 2	8.71
<i>PAT05</i>	Probable protein S-acyltransferase 5	8.75
<i>PAT18</i>	Protein S-acyltransferase 18	2.06

<i>RAB7</i>	Ras-related protein Rab7	-1.72
<i>RABA1F</i>	Ras-related protein RABA1f	1.81
<i>RABA4A</i>	Ras-related protein RABA4a	8.15
<i>RABA6A</i>	Ras-related protein RABA6a	4.51
<i>RABB1C</i>	Ras-related protein RABB1c	3.18
<i>RABD2C</i>	Ras-related protein RABD2c	2.58
<i>RABF2A</i>	Ras-related protein RABF2a	7.93
<i>RABG3D</i>	Ras-related protein RABG3d	-1.56
<i>RABG3F</i>	Ras-related protein RABG3f	2.81
<i>RBK2</i>	Receptor-like cytosolic serine/threonine-protein kinase RBK2	2.34
<i>RHN1</i>	Ras-related protein RHN1	-1.05
<i>SEC1A</i>	Protein transport Sec1a	5.33
<i>sec61a</i>	Protein transport protein Sec61 subunit alpha	3.03
<i>SEC61B</i>	Protein transport protein Sec61 subunit beta	8.93
<i>SYN112</i>	Syntaxin-112	3.04
<i>SYN121</i>	Syntaxin-121	8.61
<i>SYN122</i>	Syntaxin-122	5.21
<i>TIC214</i>	Protein TIC 214	-3.46
<i>TIC32</i>	Short-chain dehydrogenase TIC 32, chloroplastic	-2.56
<i>TMN11</i>	Transmembrane 9 superfamily member 11	8.31
<i>TOL6</i>	TOM1-like protein 6	8.72
<i>TOL9</i>	TOM1-like protein 9	1.00
<i>TOM9-2</i>	Mitochondrial import receptor subunit TOM9-2	1.18
<i>VAMP711</i>	Vesicle-associated membrane protein 711	4.60
<i>VAMP722</i>	Vesicle-associated membrane protein 722	2.37
<i>VAMP727</i>	Vesicle-associated membrane protein 727	-1.26
<i>ywhaba</i>	14-3-3 protein beta/alpha-A	9.70
<i>VPS2.2</i>	Vacuolar protein sorting-associated protein 2 homolog 2	1.02
<i>VPS32.1</i>	Vacuolar protein sorting-associated protein 32 homolog 1	2.63
<i>VSR1</i>	Vacuolar-sorting receptor 1	3.13
Metal ion transport		
<i>N/A</i>	Stellacyanin	-2.59
<i>ABCG36</i>	ABC transporter G family member 36	3.02
<i>AGD14</i>	Probable ADP-ribosylation factor GTPase-activating protein AGD14	2.08
<i>AKT1</i>	Potassium channel AKT1	-1.70
<i>AKT6</i>	Potassium channel AKT6	3.50
<i>AOP1</i>	Probable 2-oxoglutarate-dependent dioxygenase AOP1	-2.19
<i>AOP1.2</i>	Probable 2-oxoglutarate-dependent dioxygenase AOP1.2	-4.50
<i>At1g06620</i>	1-aminocyclopropane-1-carboxylate oxidase homolog 1	-1.01
<i>At1g73020</i>	Anoctamin-like protein At1g73020	1.07
<i>At2g01810</i>	PHD finger protein At2g01810	-1.56
<i>At2g44790</i>	Uclacyanin-2	-9.23
<i>At3g21360</i>	Clavamine synthase-like protein At3g21360	1.04
<i>At3g43660</i>	Vacuolar iron transporter homolog 4	3.51
<i>At3g54510</i>	CSC1-like protein At3g54510	1.32
<i>BCB</i>	Umecyanin	2.80
<i>Bp10</i>	L-ascorbate oxidase homolog	-3.63
<i>CALR</i>	Calreticulin	-9.70
<i>CAT2</i>	Catalase isozyme 2	-1.07
<i>CAX3</i>	Vacuolar cation/proton exchanger 3	-2.15
<i>CBSDUF1</i>	DUF21 domain-containing protein At4g14240	-1.10

<i>CCS</i>	Copper chaperone for superoxide dismutase, chloroplastic/cytosolic	3.18
<i>CHX15</i>	Cation/H(+) antiporter 15	1.39
<i>CHX4</i>	Cation/H(+) antiporter 4	1.41
<i>CML3</i>	Calmodulin-like protein 3	1.13
<i>CML35</i>	Probable calcium-binding protein CML35	3.55
<i>CML50</i>	Probable calcium-binding protein CML50	3.93
<i>CNGC2</i>	Cyclic nucleotide-gated ion channel 2	2.52
<i>CNX1</i>	Calnexin homolog 1	2.68
<i>CYB561D</i>	Probable transmembrane ascorbate ferrioreductase 4	2.07
<i>CYP79A2</i>	Phenylalanine N-monooxygenase	2.08
<i>DRT112</i>	Plastocyanin major isoform, chloroplastic	10.97
<i>ETFQO</i>	Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	8.56
<i>fcpA</i>	Probable C-terminal domain small phosphatase	1.49
<i>FLS</i>	Flavonol synthase/flavanone 3-hydroxylase	9.70
<i>FSD1</i>	Superoxide dismutase [Fe] 1, chloroplastic	1.80
<i>FTH</i>	Ferritin, heavy subunit	9.85
<i>FTH</i>	Ferritin, middle subunit	11.47
<i>FTH1</i>	Ferritin heavy chain	-3.56
<i>FTL</i>	Ferritin light chain	-10.85
<i>Ftl1</i>	Ferritin light chain 1	-10.43
<i>GCL2</i>	LanC-like protein GCL2	1.08
<i>gp63</i>	Leishmanolysin homolog	4.80
<i>GRXS7</i>	Monothiol glutaredoxin-S7, chloroplastic	-1.20
<i>HAK13</i>	Probable potassium transporter 13	-1.13
<i>HB2</i>	Non-symbiotic hemoglobin 2	1.39
<i>HIPP05</i>	Heavy metal-associated isoprenylated plant protein 5	3.94
<i>HIPP06</i>	Heavy metal-associated isoprenylated plant protein 6	2.28
<i>HIPP09</i>	Heavy metal-associated isoprenylated plant protein 9	3.31
<i>HIPP21</i>	Heavy metal-associated isoprenylated plant protein 21	-1.29
<i>HIPP23</i>	Heavy metal-associated isoprenylated plant protein 23	1.70
<i>HIPP26</i>	Heavy metal-associated isoprenylated plant protein 26	-1.85
<i>HIPP32</i>	Heavy metal-associated isoprenylated plant protein 32	1.25
<i>HIPP37</i>	Heavy metal-associated isoprenylated plant protein 37	1.89
<i>HIPP39</i>	Heavy metal-associated isoprenylated plant protein 39	-2.02
<i>IQD1</i>	Protein IQ-DOMAIN 1	1.43
<i>IRT2</i>	Fe(2+) transport protein 2	6.57
<i>KAT3</i>	Potassium channel KAT3	2.70
<i>KEA4</i>	K(+) efflux antiporter 4	1.03
<i>LAC14</i>	Laccase-14	-2.63
<i>LAC6</i>	Laccase-6	2.00
<i>LAC7</i>	Laccase-7	-3.26
<i>Lonrf3</i>	LON peptidase N-terminal domain and RING finger protein 3	2.77
<i>LSC30</i>	Ferritin-1, chloroplastic	1.58
<i>LTP1</i>	Non-specific lipid-transfer protein 1	10.09
<i>mcfB</i>	Mitochondrial substrate carrier family protein B	-1.01
<i>mgtA</i>	Magnesium-transporting ATPase, P-type 1	-1.29
<i>MHB1</i>	Non-symbiotic hemoglobin 1	-2.02
<i>MICU</i>	Calcium uptake protein, mitochondrial	3.51
<i>MT3</i>	Metallothionein-like protein type 3	4.82
<i>MT4B</i>	Metallothionein-like protein 4B	4.11

<i>MTP4</i>	Metal tolerance protein 4	-2.51
<i>NAKR2</i>	Protein SODIUM POTASSIUM ROOT DEFECTIVE 2	7.85
<i>NRAMP3</i>	Metal transporter Nramp3	-1.24
<i>NRAMP6</i>	Metal transporter Nramp6	-1.23
<i>NUDT16</i>	Nudix hydrolase 16, mitochondrial	1.35
<i>NUDT21</i>	Nudix hydrolase 21, chloroplastic	4.97
<i>OBE3</i>	Protein OBERON 3	3.28
<i>OPT3</i>	Oligopeptide transporter 3	-2.05
<i>PAP18</i>	Purple acid phosphatase 18	5.17
<i>PAP2</i>	Purple acid phosphatase 2	1.56
<i>PAP27</i>	Probable inactive purple acid phosphatase 27	1.07
<i>pdcA</i>	Pyruvate decarboxylase	2.09
<i>PETE</i>	Plastocyanin, chloroplastic	3.41
<i>PETF</i>	Ferredoxin	9.83
<i>NHX2</i>	Sodium/hydrogen exchanger 2	1.78
<i>NIP1</i>	NEP1-interacting protein 1	8.72
<i>pKIWI504</i>	Metallothionein-like protein type 2	-1.47
<i>PSBQ1</i>	Oxygen-evolving enhancer protein 3-1, chloroplastic	10.15
<i>PSBQ2</i>	Oxygen-evolving enhancer protein 3-2, chloroplastic	9.40
<i>Pvalb</i>	Parvalbumin alpha	-10.53
<i>S100A4</i>	Ictacalcin	11.55
<i>Sftpa1</i>	Pulmonary surfactant-associated protein A	-9.09
<i>SKU5</i>	Monocopper oxidase-like protein SKU5	1.16
<i>SOP1</i>	Peroxygenase	-5.35
<i>SPARC</i>	SPARC	-7.27
<i>THBS1</i>	Thrombospondin-1	-12.10
<i>VIT_05s0020g01830</i>	CASP-like protein 1D1	-2.25
<i>VIT_07s0104g01350</i>	CASP-like protein 1E1	5.55
<i>VIT_09s0002g03780</i>	CASP-like protein 3A1	1.23
<i>VIT_14s0068g01400</i>	CASP-like protein 1F2	2.15
<i>ZIFL1</i>	Protein ZINC INDUCED FACILITATOR-LIKE 1	-2.24
<i>ZIP10</i>	Probable zinc transporter 10	-8.62
<i>ZIP3</i>	Zinc transporter 3	-2.24
Others		
<i>7-Oct</i>	Organic cation/carnitine transporter 7	-1.37
<i>N/A</i>	Pathogen-related protein	1.25
<i>N/A</i>	Polyprotein P3	2.97
<i>N/A</i>	Probable cytochrome c biosynthesis protein	12.80
<i>N/A</i>	RNA2 polyprotein	-13.34
<i>ALMT10</i>	Aluminum-activated malate transporter 10	-2.19
<i>ALMT12</i>	Aluminum-activated malate transporter 12	-9.80
<i>ALMT13</i>	Aluminum-activated malate transporter 13	-10.99
<i>arv1</i>	Protein arv1 homolog	1.16
<i>At1g02270</i>	Uncharacterized calcium-binding protein At1g02270	4.18
<i>At2g25060</i>	Early nodulin-like protein 1	11.75
<i>At3g01520</i>	Universal stress protein A-like protein	9.24
<i>At3g28850</i>	Uncharacterized protein At3g28850	2.94
<i>At4g26020</i>	Protein At-4/1	1.82
<i>At4g27520</i>	Early nodulin-like protein 2	3.27
<i>At5g25090</i>	Early nodulin-like protein 3	2.97
<i>At5g39570</i>	Uncharacterized protein At5g39570	2.49

<i>At5g39865</i>	Uncharacterized protein At5g39865	2.14
<i>ATP5MC3</i>	ATP synthase F(0) complex subunit C3, mitochondrial	10.17
<i>ATPA</i>	ATP synthase subunit alpha, mitochondrial	3.74
<i>AVP1</i>	Pyrophosphate-energized vacuolar membrane proton pump 1	9.37
<i>AZG2</i>	Adenine/guanine permease AZG2	-1.30
<i>BAC2</i>	Mitochondrial arginine transporter BAC2	-1.64
<i>CD9</i>	CD9 antigen	9.66
<i>CIPK6</i>	CBL-interacting serine/threonine-protein kinase 6	3.31
<i>CPR</i>	NADPH--cytochrome P450 reductase	-1.66
<i>CURT1B</i>	Protein CURVATURE THYLAKOID 1B, chloroplastic	9.07
<i>CXXS1</i>	Thioredoxin-like protein CXXS1	8.75
<i>ECH</i>	Golgi apparatus membrane protein-like protein ECHIDNA	-1.79
<i>ENODL1</i>	Early nodulin-like protein 1	2.12
<i>ENT3</i>	Equilibrative nucleotide transporter 3	1.52
<i>ETFB</i>	Electron transfer flavoprotein subunit beta, mitochondrial	1.70
<i>FATB1</i>	Palmitoyl-acyl carrier protein thioesterase, chloroplastic	1.43
<i>FH11</i>	Formin-like protein 11	1.02
<i>GRXC3</i>	Glutaredoxin-C3	2.92
<i>GRXC6</i>	Glutaredoxin-C6	2.48
<i>INT1</i>	Inositol transporter 1	-1.05
<i>INT2</i>	Probable inositol transporter 2	-2.45
<i>MBD10</i>	Methyl-CpG-binding domain-containing protein 10	2.88
<i>MSL10</i>	Mechanosensitive ion channel protein 10	1.21
<i>Mtstp6</i>	ATP synthase subunit a	-12.08
<i>MT-ATP6</i>	ATP synthase subunit a	-10.24
<i>Mtnd2</i>	NADH-ubiquinone oxidoreductase chain 2	-10.29
<i>MT-ND2</i>	NADH-ubiquinone oxidoreductase chain 2	11.58
<i>Mtnd4</i>	NADH-ubiquinone oxidoreductase chain 4	-10.50
<i>MT-ND4L</i>	NADH-ubiquinone oxidoreductase chain 4L	-10.33
<i>Mtnd5</i>	NADH-ubiquinone oxidoreductase chain 5	-9.45
<i>MT-ND5</i>	NADH-ubiquinone oxidoreductase chain 5	-10.20
<i>NIK1</i>	Protein NSP-INTERACTING KINASE 1	2.45
<i>NPF1.2</i>	Protein NRT1/ PTR FAMILY 1.2	-4.17
<i>NPF2.11</i>	Protein NRT1/ PTR FAMILY 2.11	-1.03
<i>NPF2.13</i>	Protein NRT1/ PTR FAMILY 2.13	-2.59
<i>NPF5.2</i>	Protein NRT1/ PTR FAMILY 5.2	1.44
<i>NPF5.6</i>	Protein NRT1/ PTR FAMILY 5.6	-3.92
<i>NPF6.3</i>	Protein NRT1/ PTR FAMILY 6.3	2.95
<i>NPF6.4</i>	Protein NRT1/ PTR FAMILY 6.4	2.37
<i>NRG2</i>	Nitrate regulatory gene2 protein	3.46
<i>NRT3.1</i>	High-affinity nitrate transporter 3.1	-3.87
<i>PHO1;H3</i>	Phosphate transporter PHO1 homolog 3	-1.39
<i>PHO1-1</i>	Phosphate transporter PHO1-1	2.82
<i>PHO1-H1</i>	Phosphate transporter PHO1 homolog 1	3.17
<i>PHO1-H5</i>	Phosphate transporter PHO1 homolog 5	-1.57
<i>pho-5</i>	Repressible high-affinity phosphate permease	9.08
<i>PHT1-11</i>	Inorganic phosphate transporter 1-11	3.50
<i>PHT1-4</i>	Inorganic phosphate transporter 1-4	1.53
<i>PILS2</i>	Protein PIN-LIKES 2	-4.37
<i>PIN1A</i>	Auxin efflux carrier component 1a	2.08
<i>PIN3</i>	Auxin efflux carrier component 3	2.03

<i>PIN8</i>	Auxin efflux carrier component 8	3.32
<i>PIP1-3</i>	Aquaporin PIP1-3	1.12
<i>PIP2-7</i>	Aquaporin PIP2-7	1.98
<i>PIP5K6</i>	Phosphatidylinositol 4-phosphate 5-kinase 6	1.53
<i>PME110</i>	21 kDa protein	3.26
<i>PRA1B4</i>	PRA1 family protein B4	3.22
<i>PRA1F2</i>	PRA1 family protein F2	1.20
<i>PRDX1</i>	Peroxiredoxin	9.24
<i>PUP11</i>	Probable purine permease 11	1.67
<i>PUP14</i>	Purine permease 14	4.23
<i>rraA</i>	Regulator of ribonuclease activity A	2.78
<i>Sftpc</i>	Pulmonary surfactant-associated protein C	-11.64
<i>SIP1-1</i>	Aquaporin SIP1-1	-1.32
<i>SLC25A5</i>	ADP/ATP translocase 2	11.15
<i>TBL19</i>	Protein trichome birefringence-like 19	1.24
<i>TDX</i>	TPR repeat-containing thioredoxin TDX	1.39
<i>WDR44</i>	WD repeat-containing protein 44	1.48
<i>ycf2</i>	Protein Ycf2	-2.66
<i>ycf2-A</i>	Protein Ycf2	-1.16
<i>ycf2-A</i>	Protein Ycf2	4.40
<i>ycf2-A</i>	Protein Ycf2	-2.83
<i>ycf2-A</i>	Protein Ycf2	-5.24
<i>TIP1-3</i>	Aquaporin TIP1-3	-2.84
<i>TIP2-1</i>	Aquaporin TIP2-1	5.04
<i>TUBB1</i>	Tubulin beta-1 chain	2.05
<i>VHA-d2</i>	V-type proton ATPase subunit d2	-1.91

Table S4. Transcription genes factor differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Transcription factors		
<i>1-Sep</i>	Developmental protein SEPALLATA 1	8.74
<i>AFP3</i>	Ninja-family protein AFP3	1.21
<i>AG1</i>	Floral homeotic protein AGAMOUS	9.61
<i>AG2</i>	Floral homeotic protein AGAMOUS	7.24
<i>AGL15</i>	Agamous-like MADS-box protein AGL15	3.63
<i>AHL1</i>	AT-hook motif nuclear-localized protein 1	1.68
<i>AHL10</i>	AT-hook motif nuclear-localized protein 10	1.14
<i>AHL17</i>	AT-hook motif nuclear-localized protein 17	-2.51
<i>AHL23</i>	AT-hook motif nuclear-localized protein 23	-2.60
<i>AHL26</i>	AT-hook motif nuclear-localized protein 26	-2.45
<i>AHL5</i>	AT-hook motif nuclear-localized protein 5	1.76
<i>AIL1</i>	AP2-like ethylene-responsive transcription factor AIL1	4.64
<i>AIL6</i>	AP2-like ethylene-responsive transcription factor AIL6	3.14
<i>AMS</i>	Transcription factor ABORTED MICROSPORES	6.25
<i>ANL2</i>	Homeobox-leucine zipper protein ANTHOCYANINLESS 2	2.95
<i>ANT</i>	AP2-like ethylene-responsive transcription factor ANT	2.08
<i>AP1</i>	Floral homeotic protein APETALA 1	5.10
<i>AP1</i>	Floral homeotic protein APETALA 1	8.17
<i>AP2</i>	Floral homeotic protein APETALA 2	1.74
<i>ARF17</i>	Auxin response factor 17	1.41
<i>ARF31</i>	B3 domain-containing protein At2g36080	1.44
<i>ARF8</i>	Auxin response factor 8	1.29
<i>At5g14285</i>	B3 domain-containing protein At2g36080	10.29
<i>At5g42700</i>	B3 domain-containing protein At5g42700	2.51
<i>ATHB-12</i>	Homeobox-leucine zipper protein ATHB-12	5.89
<i>ATHB-20</i>	Homeobox-leucine zipper protein ATHB-20	3.93
<i>ATHB-40</i>	Homeobox-leucine zipper protein ATHB-40	1.38
<i>ATHB-6</i>	Homeobox-leucine zipper protein ATHB-6	2.11
<i>BEH2</i>	BES1/BZR1 homolog protein 2	2.51
<i>BEL1</i>	Homeobox protein BEL1 homolog	-2.09
<i>BHLH11</i>	Transcription factor bHLH11	3.42
<i>BHLH117</i>	Transcription factor bHLH117	4.30
<i>BHLH30</i>	Transcription factor bHLH30	1.76
<i>BHLH48</i>	Transcription factor bHLH48	2.24
<i>BHLH49</i>	Transcription factor bHLH49	1.12
<i>BHLH62</i>	Transcription factor bHLH62	1.23
<i>BHLH63</i>	Transcription factor bHLH63	1.49
<i>BHLH66</i>	Transcription factor bHLH66	2.74
<i>BHLH67</i>	Transcription factor bHLH67	1.07
<i>BHLH68</i>	Transcription factor bHLH68	-1.90
<i>BHLH74</i>	Transcription factor bHLH74	1.13
<i>BHLH91</i>	Transcription factor bHLH91	7.59
<i>BHLH94</i>	Transcription factor bHLH94	-1.69
<i>BLH11</i>	BEL1-like homeodomain protein 11	-1.34
<i>BLH7</i>	BEL1-like homeodomain protein 7	-1.10
<i>BPE</i>	Transcription factor BPE	2.71

<i>BTF3</i>	Transcription factor BTF3	10.25
<i>BZIP02</i>	Basic leucine zipper 2	2.08
<i>BZIP1</i>	Basic leucine zipper 1	8.65
<i>BZIP2</i>	bZIP transcription factor 2	1.58
<i>BZIP25</i>	Basic leucine zipper 25	5.21
<i>BZIP53</i>	bZIP transcription factor 53	2.97
<i>BZIP60</i>	bZIP transcription factor 60	4.24
<i>C1</i>	Anthocyanin regulatory C1 protein	-4.13
<i>CDC5</i>	Cell division cycle 5-like protein	8.91
<i>CDF2</i>	Cyclic dof factor 2	-1.94
<i>CSA</i>	Transcription factor CSA	-1.11
<i>DEFA</i>	Floral homeotic protein DEFICIENS	2.16
<i>DIVARICATA</i>	Transcription factor DIVARICATA	1.16
<i>DOGL2</i>	Protein DOG1-like 2	1.77
<i>DOGL3</i>	Protein DOG1-like 3	-1.59
<i>DREB2D</i>	Dehydration-responsive element-binding protein 2D	-3.81
<i>DREB2E</i>	Dehydration-responsive element-binding protein 2E	3.79
<i>DREB2G</i>	Dehydration-responsive element-binding protein 2G	1.38
<i>DREB3</i>	Dehydration-responsive element-binding protein 3	2.39
<i>DYT1</i>	Transcription factor DYT1	8.78
<i>EJ2</i>	MADS-box protein EJ2	8.23
<i>ERF1A</i>	Ethylene-responsive transcription factor 1A	-3.96
<i>FAMA</i>	Transcription factor FAMA	9.21
<i>FL</i>	Floricaula/leafy homolog	10.03
<i>FRS3</i>	Protein FAR1-RELATED SEQUENCE 3	-1.51
<i>FRS5</i>	Protein FAR1-RELATED SEQUENCE 5	1.64
<i>FRS7</i>	Protein FAR1-RELATED SEQUENCE 7	-8.25
<i>FRS8</i>	Protein FAR1-RELATED SEQUENCE 8	1.69
<i>GATA12</i>	GATA transcription factor 12	3.44
<i>GATA4</i>	GATA transcription factor 4	1.78
<i>GATA5</i>	GATA transcription factor 5	1.34
<i>GATA8</i>	GATA transcription factor 8	3.63
<i>GATA9</i>	GATA transcription factor 9	1.84
<i>GEBPL</i>	GLABROUS1 enhancer-binding protein-like	3.75
<i>GL2</i>	Homeobox-leucine zipper protein GLABRA 2	-1.39
<i>GT-2</i>	Trihelix transcription factor GT-2	-1.16
<i>GT-3B</i>	Trihelix transcription factor GT-3b	-3.71
<i>GT-4</i>	Trihelix transcription factor GT-4	-1.13
<i>GTE1</i>	Transcription factor GTE1	-1.81
<i>gtf2f2</i>	General transcription factor IIF subunit 2	-1.27
<i>HAT14</i>	Homeobox-leucine zipper protein HAT14	1.34
<i>HD1</i>	Homeobox protein HD1	-1.17
<i>HDG12</i>	Homeobox-leucine zipper protein HDG12	-1.87
<i>HHO2</i>	Transcription factor HHO2	8.51
<i>HMGB9</i>	High mobility group B protein 9	1.70
<i>HOX27</i>	Homeobox-leucine zipper protein HOX27	2.87
<i>HSF24</i>	Heat shock factor protein HSF24	-1.18
<i>HSFB1</i>	Heat stress transcription factor B-1	2.21
<i>HSFB2C</i>	Heat stress transcription factor B-2c	-1.02
<i>HSFB4</i>	Heat stress transcription factor B-4	-2.21
<i>HSFC1</i>	Heat stress transcription factor C-1	6.15

<i>IBL1</i>	Transcription factor IBH1-like 1	1.51
<i>ID3</i>	DNA-binding protein inhibitor ID-3	-9.63
<i>KAN2</i>	Probable transcription factor KAN2	1.90
<i>KAN4</i>	Probable transcription factor KAN4	2.51
<i>KN1</i>	Homeobox protein knotted-1-like 2	1.18
<i>KN1</i>	Homeotic protein knotted-1	1.24
<i>KNAT3</i>	Homeobox protein knotted-1-like 3	-1.09
<i>LBD20</i>	LOB domain-containing protein 20	1.52
<i>LBD29</i>	LOB domain-containing protein 29	2.08
<i>LBD41</i>	LOB domain-containing protein 41	3.62
<i>LHW</i>	Transcription factor LHW	1.07
<i>LSH10</i>	Protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 10	-4.47
<i>LSH3</i>	Protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 3	2.20
<i>LSH4</i>	Protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4	-2.37
<i>MADS3</i>	MADS-box transcription factor 3	8.36
<i>MADS57</i>	MADS-box transcription factor 57	-3.06
<i>MBF1B</i>	Multiprotein-bridging factor 1b	2.51
<i>MBF1C</i>	Multiprotein-bridging factor 1c	1.11
<i>MIP1B</i>	B-box domain protein 31	-1.33
<i>MtrDRAFT_AC149210g4v1</i>	Probable histone H2A.2	2.46
<i>MUTE</i>	Transcription factor MUTE	-1.79
<i>MYB105</i>	Transcription factor MYB105	3.12
<i>MYB14</i>	Transcription factor MYB14	-5.76
<i>MYB17</i>	Transcription factor MYB17	2.06
<i>MYB23</i>	Transcription factor MYB23	-2.90
<i>MYB25</i>	Transcription factor MYB25	-1.90
<i>MYB306</i>	Myb-related protein 306	1.18
<i>MYB308</i>	Myb-related protein 308	-2.63
<i>MYB330</i>	Myb-related protein 330	-2.01
<i>MYB35</i>	Transcription factor MYB35	7.84
<i>MYB36</i>	Transcription factor MYB36	-4.45
<i>MYB44</i>	Transcription factor MYB44	-1.21
<i>MYB46</i>	Transcription factor MYB46	1.60
<i>MYB61</i>	Transcription factor MYB61	2.56
<i>MYB77</i>	Transcription factor MYB77	1.68
<i>MYB8</i>	Transcription factor MYB8	-2.24
<i>MYBC1</i>	Transcription factor MYBC1	1.30
<i>MYR2</i>	Myb-related protein 2	-1.07
<i>NAC035</i>	NAC domain-containing protein 35	1.26
<i>NAC071</i>	NAC domain-containing protein 71	1.72
<i>NAC072</i>	NAC domain-containing protein 72	-4.58
<i>NAC075</i>	NAC domain-containing protein 75	1.62
<i>NAC078</i>	NAC domain-containing protein 78	8.16
<i>NAC083</i>	NAC domain-containing protein 83	3.51
<i>NAC087</i>	NAC domain-containing protein 87	-2.50
<i>NAC100</i>	NAC domain-containing protein 100	-2.04
<i>NAC104</i>	NAC domain-containing protein 104	-9.16
<i>NAC69</i>	NAC domain-containing protein 69	2.33
<i>NEN4</i>	NEN4	-1.33
<i>NFYA8</i>	Nuclear transcription factor Y subunit A-8	1.83

<i>NFYB6</i>	Nuclear transcription factor Y subunit B-6	1.58
<i>NIR1</i>	Ferredoxin--nitrite reductase, chloroplastic	-4.52
<i>NLP2</i>	Protein NLP2	1.18
<i>NRPB11</i>	DNA-directed RNA polymerases II, IV and V subunit 11	-3.35
<i>NRPB6A</i>	DNA-directed RNA polymerases II, IV and V subunit 6A	3.05
<i>NUCL1</i>	Nucleolin 1	4.21
<i>OFP13</i>	Transcription repressor OFP13	3.29
<i>OFP14</i>	Transcription repressor OFP14	-1.70
<i>OFP16</i>	Transcription repressor OFP16	1.42
<i>OFP3</i>	Transcription repressor OFP3	1.09
<i>OFP7</i>	Transcription repressor OFP7	1.15
<i>OFP8</i>	Transcription repressor OFP8	8.96
<i>PAN</i>	Transcription factor PERIANTHIA	1.77
<i>PIF4</i>	Transcription factor PIF4	-1.98
<i>PMADS2</i>	Floral homeotic protein PMADS 2	13.38
<i>PRE5</i>	Transcription factor PRE5	5.11
<i>RAP2-4</i>	Ethylene-responsive transcription factor RAP2-4	2.92
<i>RDR1</i>	RNA-dependent RNA polymerase 1	1.09
<i>RDR2</i>	RNA-dependent RNA polymerase 2	1.60
<i>SAP</i>	Transcriptional regulator STERILE APETALA	-2.65
<i>SCL18</i>	Scarecrow-like protein 18	8.61
<i>SCL3</i>	Scarecrow-like protein 3	-2.25
<i>SCL5</i>	Scarecrow-like protein 5	4.16
<i>SCRM</i>	Transcription factor ICE1	2.15
<i>SHI</i>	Protein SHORT INTERNODES	4.51
<i>SHR</i>	Protein SHORT-ROOT	2.47
<i>SIR</i>	Assimilatory sulfite reductase (ferredoxin), chloroplastic	2.15
<i>SIR1</i>	Sulfite reductase 1 [ferredoxin], chloroplastic	-1.00
<i>SPL6</i>	Squamosa promoter-binding-like protein 6	-1.24
<i>SPL9</i>	Squamosa promoter-binding-like protein 9	-1.92
<i>STOP1</i>	Protein SENSITIVE TO PROTON RHIZOTOXICITY 1	1.77
<i>TAF10</i>	Transcription initiation factor TFIID subunit 10	4.47
<i>TAGLN3</i>	Transgelin-3	8.69
<i>TCP15</i>	Transcription factor TCP15	1.29
<i>TCP20</i>	Transcription factor TCP20	3.21
<i>TCP4</i>	Transcription factor TCP4	2.66
<i>TCX2</i>	tesmin/TSO1-like CXC 2	1.08
<i>TFIIB1</i>	Transcription initiation factor IIB-1	5.71
<i>TGA10</i>	bZIP transcription factor TGA10	7.03
<i>TPR4</i>	Topless-related protein 4	11.93
<i>TRY</i>	Transcription factor TRY	-1.35
<i>TULP1</i>	Tubby-like F-box protein 1	1.26
<i>WIN1</i>	Ethylene-responsive transcription factor WIN1	-2.32
<i>WRKY11</i>	Probable WRKY transcription factor 11	3.69
<i>WRKY12</i>	Probable WRKY transcription factor 12	-2.93
<i>WRKY24</i>	WRKY transcription factor WRKY24	-2.56
<i>WRKY48</i>	Probable WRKY transcription factor 48	-2.76
<i>WRKY6</i>	WRKY transcription factor 6	2.72
<i>WRKY65</i>	Probable WRKY transcription factor 65	-2.50
<i>WRKY75</i>	Probable WRKY transcription factor 75	9.10

Zinc finger protein

<i>At1g19860</i>	Zinc finger CCCH domain-containing protein 6	-1.09
<i>At1g66810</i>	Zinc finger CCCH domain-containing protein 14	-1.04
<i>At1g68200</i>	Zinc finger CCCH domain-containing protein 15	1.28
<i>At2g19810</i>	Zinc finger CCCH domain-containing protein 20	4.03
<i>At2g20280</i>	Zinc finger CCCH domain-containing protein 21	-1.62
<i>At2g25900</i>	Zinc finger CCCH domain-containing protein 23	1.58
<i>At2g40140</i>	Zinc finger CCCH domain-containing protein 29	-1.58
<i>AZF1</i>	Zinc finger protein AZF1	-1.66
<i>COL2</i>	Zinc finger protein CONSTANS-LIKE 2	3.24
<i>DOF3.5</i>	Dof zinc finger protein DOF3.5	2.97
<i>DOF3.6</i>	Dof zinc finger protein DOF3.6	1.75
<i>DOF5.4</i>	Dof zinc finger protein DOF5.4	1.08
<i>DOF5.7</i>	Dof zinc finger protein DOF5.7	3.18
<i>HAT</i>	Zinc finger BED domain-containing protein DAYSLEEPER	7.47
<i>JAG</i>	Zinc finger protein JAGGED	11.05
<i>KNU</i>	Zinc finger protein KNUCKLES	10.30
<i>MGP</i>	Zinc finger protein MAGPIE	2.84
<i>Os01g0518400</i>	Zinc finger BED domain-containing protein RICESLEEPER 4	-4.86
<i>Os03g0733400</i>	Zinc finger BED domain-containing protein RICESLEEPER 2	-10.07
<i>Os05g0239150</i>	Zinc finger BED domain-containing protein RICESLEEPER 1	-5.40
<i>Os05g0583200</i>	Zinc finger BED domain-containing protein RICESLEEPER 3	-6.09
<i>Os07g0682400</i>	Zinc finger CCCH domain-containing protein 53	1.75
<i>Os10g0391300</i>	Zinc finger CCCH domain-containing protein 62	2.35
<i>SAP12</i>	Zinc finger AN1 domain-containing stress-associated protein 12	3.08
<i>SAP2</i>	Zinc finger A20 and AN1 domain-containing stress-associated protein 2	3.24
<i>SAP4</i>	Zinc finger A20 and AN1 domain-containing stress-associated protein 4	3.29
<i>SAP5</i>	Zinc finger A20 and AN1 domain-containing stress-associated protein 5	4.12
<i>SAP7</i>	Zinc finger A20 and AN1 domain-containing stress-associated protein 7	2.29
<i>WIP2</i>	Zinc finger protein WIP2	10.96
<i>WIP4</i>	Zinc finger protein WIP4	8.26
<i>ZAT12</i>	Zinc finger protein ZAT12	4.37
<i>ZAT3</i>	Zinc finger protein ZAT3	-9.35
<i>ZAT5</i>	Zinc finger protein ZAT5	-1.95
<i>ZAT6</i>	Zinc finger protein ZAT6	3.67
<i>ZAT9</i>	Zinc finger protein ZAT9	1.54
<i>ZFP1</i>	Zinc finger protein 1	-1.04
<i>ZFP10</i>	Zinc finger protein 10	9.95
<i>ZFP3</i>	Zinc finger protein 3	-1.11
<i>ZHD1</i>	Zinc-finger homeodomain protein 1	5.73
<i>ZHD4</i>	Zinc-finger homeodomain protein 4	7.49
<i>ZHD8</i>	Zinc-finger homeodomain protein 8	1.28
<i>ZMYM1</i>	Zinc finger MYM-type protein 1	-1.43
<i>ZNHIT3</i>	Zinc finger HIT domain-containing protein 3	2.51

Reverse transcription

N/A	DNA polymerase	-1.05
N/A	Retrovirus-related Pol polyprotein from transposon TNT 1-94	12.95
N/A	Retrovirus-related Pol polyprotein from type-1 retrotransposable element R2	-3.47
N/A	Retrovirus-related Pol polyprotein from type-1 retrotransposable element R2	13.47
N/A	Retrovirus-related Pol polyprotein from type-1 retrotransposable element R2	10.44
N/A	RNA-directed RNA polymerase	-1.31
<i>At4g24790</i>	STICHEL-like 2	1.03
<i>pol</i>	Retrovirus-related Pol polyprotein from transposon 17.6	11.05
<i>pol</i>	Retrovirus-related Pol polyprotein from transposon 297	1.91
<i>POL</i>	Retrovirus-related Pol polyprotein from transposon 412	8.02
<i>pol</i>	Retrovirus-related Pol polyprotein from transposon gypsy	-6.21
<i>pol</i>	Retrovirus-related Pol polyprotein from transposon opus	3.73
<i>pol</i>	Retrovirus-related Pol polyprotein from type-2 retrotransposable element R2DM	-3.40
<i>POLL</i>	DNA polymerase lambda	1.36
<i>RE1</i>	Retrovirus-related Pol polyprotein from transposon RE1	-9.55
<i>RE2</i>	Retrovirus-related Pol polyprotein from transposon RE2	-9.60
<i>TY3B-I</i>	RNA-directed DNA polymerase homolog	-9.25

Others

<i>AGO1B</i>	Protein argonaute 1B	3.18
<i>alkB</i>	Alpha-ketoglutarate-dependent dioxygenase AlkB	-1.00
<i>ASI1</i>	Protein ANTI-SILENCING 1	1.13
<i>At1g07790</i>	Histone H2B.1	1.68
<i>At1g09620</i>	Leucine--tRNA ligase, cytoplasmic	-2.34
<i>At1g52740</i>	Probable histone H2A variant 3	2.53
<i>At1g65660</i>	Pre-mRNA-splicing factor SLU7-A	2.60
<i>At2g28720</i>	Histone H2B.3	2.31
<i>At2g30620</i>	Histone H1	1.38
<i>At3g19184</i>	B3 domain-containing protein At3g19184	1.41
<i>At3g58590</i>	Pentatricopeptide repeat-containing protein At3g58590	1.42
<i>At4g34730</i>	Probable ribosome-binding factor A, chloroplastic	11.52
<i>At5g02560</i>	Histone H2A	1.16
<i>ATXR6</i>	Histone-lysine N-methyltransferase ATXR6	1.26
<i>BARD1</i>	BRCA1-associated RING domain protein 1	10.47
<i>c12.1</i>	Protein CWC15 homolog	2.33
<i>CAD</i>	Probable mannitol dehydrogenase	1.69
<i>cdc45</i>	Cell division control protein 45 homolog	1.52
<i>CDC6</i>	Cell division control protein 6 homolog	1.10
<i>CDT1A</i>	CDT1-like protein a, chloroplastic	1.48
<i>CID11</i>	Polyadenylate-binding protein-interacting protein 11	-1.23
<i>cirbp-b</i>	Cold-inducible RNA-binding protein B	9.70
<i>CMT3</i>	DNA (cytosine-5)-methyltransferase CMT3	1.35
<i>CP29B</i>	RNA-binding protein CP29B, chloroplastic	2.65
<i>crop</i>	Luc7-like protein	-1.13
<i>CRS2A</i>	Chloroplastic group IIB intron splicing facilitator CRS2-A, chloroplastic	1.00
<i>CSN2</i>	COP9 signalosome complex subunit 2	9.39

<i>cowf17</i>	Pre-mRNA-splicing factor cowf17	8.51
<i>CXIP4</i>	CAX-interacting protein 4	9.50
<i>DDM1</i>	ATP-dependent DNA helicase DDM1	6.67
<i>DDX21</i>	Nucleolar RNA helicase 2	9.81
<i>Ddx50</i>	ATP-dependent RNA helicase DDX50	9.17
<i>DMC1</i>	Meiotic recombination protein DMC1 homolog	2.13
<i>DMT1</i>	DNA (cytosine-5)-methyltransferase 1	1.27
<i>DnaJ-1</i>	DnaJ protein homolog 1	5.29
<i>dpb4</i>	DNA polymerase epsilon subunit D	1.05
<i>dtl-a</i>	Denticleless protein homolog A	1.62
<i>EBP2</i>	Probable rRNA-processing protein EBP2 homolog	1.21
<i>EEF1D</i>	Elongation factor 1-delta	9.76
<i>EEF2</i>	Elongation factor 2	-8.48
<i>EMB2758</i>	Pentatricopeptide repeat-containing protein At4g33990	1.30
<i>eri2</i>	ERI1 exoribonuclease 2	1.62
<i>EXO1</i>	Exonuclease 1	1.35
<i>F46B6.12</i>	UPF0587 protein F46B6.12	-4.53
<i>Gins1</i>	DNA replication complex GINS protein PSF1	1.07
<i>GIP</i>	Copia protein	10.24
<i>GLO</i>	Floral homeotic protein GLOBOSA	13.36
<i>GRF3</i>	Growth-regulating factor 3	2.37
<i>GRF4</i>	Growth-regulating factor 4	5.22
<i>GRP10</i>	Glycine-rich RNA-binding protein 10	3.23
<i>GRXS13</i>	Monothiol glutaredoxin-S13	4.43
<i>H3-1.1</i>	Histone H3.2	1.96
<i>H3-7</i>	Histone H3.2	2.98
<i>HAC12</i>	Histone acetyltransferase HAC12	1.59
<i>HDT2</i>	Histone deacetylase HDT2	2.98
<i>HHT1</i>	Histone H3.1	2.53
<i>HIPP41</i>	Heavy metal-associated isoprenylated plant protein 41	1.09
<i>HIS2A</i>	Histone H2AX	1.86
<i>hmces</i>	Abasic site processing protein HMCES	2.31
<i>HMGB2</i>	HMG1/2-like protein	1.54
<i>HMGB2</i>	HMG1/2-like protein	3.75
<i>HMGIY2</i>	HMG-Y-related protein A	1.45
<i>K02A2.6</i>	Uncharacterized protein K02A2.6	-1.53
<i>KU70</i>	ATP-dependent DNA helicase 2 subunit KU70	-1.49
<i>L</i>	RNA-directed RNA polymerase L	-8.80
<i>LARP6A</i>	La-related protein 6A	8.74
<i>MAGO</i>	mago nashi homolog	2.11
<i>MCM3</i>	DNA replication licensing factor MCM3	1.77
<i>MCM5</i>	DNA replication licensing factor MCM5	1.01
<i>MCM9</i>	Probable DNA helicase MCM9	1.59
<i>MED37C</i>	Probable mediator of RNA polymerase II transcription subunit 37c	5.15
<i>MED6</i>	Mediator of RNA polymerase II transcription subunit 6	-1.34
<i>NAC081</i>	Protein ATAF2	9.24
<i>ORC1</i>	Origin of replication complex subunit 1	2.34
<i>ORC4</i>	Origin of replication complex subunit 4	1.23
<i>ORC6</i>	Origin of replication complex subunit 6	1.37
<i>ORTH2</i>	E3 ubiquitin-protein ligase ORTHRUS 2	1.79

<i>Os03g0120900</i>	B3 domain-containing protein Os03g0120900	1.95
<i>Os05g0235800</i>	DNA replication licensing factor MCM6	1.36
<i>Os07g0679700</i>	B3 domain-containing protein Os07g0679700	-2.33
<i>Os12g0591300</i>	B3 domain-containing protein Os12g0591400	-2.03
<i>OsI_36121</i>	DNA replication licensing factor MCM2	1.50
<i>Pabpc1</i>	Polyadenylate-binding protein 1	10.61
<i>PCMP-A5</i>	Pentatricopeptide repeat-containing protein At3g26540	1.38
<i>PCMP-E1</i>	Pentatricopeptide repeat-containing protein At5g59600	1.28
<i>PCMP-E4</i>	Pentatricopeptide repeat-containing protein At1g03540	1.35
<i>PCMP-E6</i>	Pentatricopeptide repeat-containing protein At4g22760	-1.06
<i>PCMP-E88</i>	Pentatricopeptide repeat-containing protein At3g09040, mitochondrial	1.24
<i>PCMP-E99</i>	Pentatricopeptide repeat-containing protein At4g04370	1.64
<i>PCMP-H12</i>	Pentatricopeptide repeat-containing protein At1g08070, chloroplastic	1.15
<i>PCMP-H53</i>	Pentatricopeptide repeat-containing protein At4g33170	1.09
<i>PCMP-H70</i>	Pentatricopeptide repeat-containing protein At1g71420	1.58
<i>PCMP-H81</i>	Pentatricopeptide repeat-containing protein At3g57430, chloroplastic	1.15
<i>PCNA</i>	Proliferating cell nuclear antigen	1.35
<i>PDCD4</i>	Programmed cell death protein 4	8.93
<i>PHN1</i>	Protein argonaute PNH1	2.22
<i>pif1</i>	ATP-dependent DNA helicase pif1	-1.06
<i>PIF1</i>	ATP-dependent DNA helicase PIF1	-1.16
<i>pif1</i>	ATP-dependent DNA helicase pif1	2.99
<i>pif1</i>	ATP-dependent DNA helicase pif1	-1.14
<i>PIF4</i>	ATP-dependent DNA helicase PIF4	-1.03
<i>PIF7</i>	ATP-dependent DNA helicase PIF7	-1.15
<i>PLA2</i>	Protein terminal ear1 homolog	7.83
<i>pol</i>	Gag-Pol polyprotein	12.69
<i>Pol</i>	LINE-1 retrotransposable element ORF2 protein	-7.70
<i>Ppie</i>	Peptidyl-prolyl cis-trans isomerase E	1.51
<i>R3hdm2</i>	R3H domain-containing protein 2	4.37
<i>RAD23D</i>	Ubiquitin receptor RAD23d	4.11
<i>RAD51</i>	DNA repair protein RAD51 homolog	1.24
<i>RAD5B</i>	DNA repair protein RAD5B	1.49
<i>RBG2</i>	Glycine-rich RNA-binding protein 2, mitochondrial	3.55
<i>RBG5</i>	Glycine-rich RNA-binding protein 5, mitochondrial	3.17
<i>RBG7</i>	Glycine-rich RNA-binding protein GRP1A	3.14
<i>RBP1</i>	RNA-binding protein 1	4.60
<i>RBP45A</i>	Polyadenylate-binding protein RBP45A	2.64
<i>RBP45C</i>	Polyadenylate-binding protein RBP45C	4.12
<i>RBP47B</i>	Polyadenylate-binding protein RBP47B	4.58
<i>RCOM_1506700</i>	Probable aspartyl aminopeptidase	1.47
<i>RECQSIM</i>	ATP-dependent DNA helicase Q-like SIM	1.03
<i>RH14</i>	DEAD-box ATP-dependent RNA helicase 14	3.49
<i>RH3</i>	Histone H3.3	2.41
<i>RH31</i>	DEAD-box ATP-dependent RNA helicase 31	1.04
<i>RNA1</i>	RNA1 polyprotein	-14.32
<i>RNA1</i>	RNA1 polyprotein	-14.85
<i>rnf2-a</i>	E3 ubiquitin-protein ligase RING2-A	-1.04

<i>rnhA</i>	Ribonuclease HI	4.81
<i>ROC3</i>	Homeobox-leucine zipper protein ROC3	1.54
<i>RPA1B</i>	Replication protein A 70 kDa DNA-binding subunit B	1.58
<i>RPT6A</i>	26S proteasome regulatory subunit 8 homolog A	-2.34
<i>RS2</i>	Protein rough sheath 2	1.66
<i>RS2Z33</i>	Serine/arginine-rich splicing factor RS2Z33	2.60
<i>RS40</i>	Serine/arginine-rich splicing factor RS40	8.48
<i>Rtfdc1</i>	Replication termination factor 2	3.01
<i>RZFP34</i>	Probable E3 ubiquitin-protein ligase RZFP34	3.76
<i>RZPF34</i>	E3 ubiquitin-protein ligase RZFP34	2.72
<i>S100a1</i>	Protein S100-A1	11.53
<i>SCL30A</i>	Serine/arginine-rich SC35-like splicing factor SCL30A	3.82
<i>SCL7</i>	SCARECROW-LIKE protein 7	1.51
<i>sde2</i>	Replication stress response regulator SDE2	2.28
<i>SKI2</i>	DEXH-box ATP-dependent RNA helicase DEXH11	1.03
<i>SKIP</i>	SNW/SKI-interacting protein	8.67
<i>SIH4</i>	Histone H4	3.18
<i>SIH4</i>	Histone H4	2.26
<i>Slx1b</i>	Structure-specific endonuclease subunit SLX1	1.64
<i>SNRNP40</i>	U5 small nuclear ribonucleoprotein 40 kDa protein	8.69
<i>snu13</i>	NHP2-like protein 1	2.22
<i>soH3-1</i>	Histone H3.3b	-1.69
<i>SPO11-1</i>	Meiotic recombination protein SPO11-1	-3.15
<i>SR45A</i>	Serine/arginine-rich splicing factor SR45a	8.75
<i>SRP72</i>	Signal recognition particle subunit SRP72	-1.32
<i>STI</i>	Protein STICHEL	1.40
<i>TE1</i>	Protein terminal ear1	5.60
<i>Tf2-12</i>	Transposon Tf2-12 polyprotein	-8.51
<i>Tnni2</i>	Troponin I, fast skeletal muscle	-10.64
<i>TOP2</i>	DNA topoisomerase 2	2.33
<i>TPR1</i>	Protein TPR1	-1.39
<i>TY2B-B</i>	Transposon Ty2-B Gag-Pol polyprotein	2.43
<i>TY3B-G</i>	Transposon Ty3-G Gag-Pol polyprotein	6.38
<i>TY3B-I</i>	Transposon Ty3-I Gag-Pol polyprotein	9.48
<i>TY4B-J</i>	Transposon Ty4-J Gag-Pol polyprotein	-1.35
<i>U2AF35B</i>	Splicing factor U2af small subunit B	9.02
<i>UBA1C</i>	UBP1-associated proteins 1C	1.02
<i>UBP1A</i>	Oligouridylate-binding protein 1A	2.40
<i>UVH3</i>	DNA repair protein UVH3	-1.36
<i>VIM</i>	Vimentin	-9.63
<i>Wrrn</i>	Werner syndrome ATP-dependent helicase homolog	2.07
<i>XRCC2</i>	DNA repair protein XRCC2 homolog	1.41
<i>YBX1</i>	Y-box-binding protein 1	11.39
<i>ythdf2</i>	YTH domain-containing family protein 2	3.60

Table S5. Cell morphogenesis genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Cell growth and development		
<i>3MMP</i>	Metalloendoproteinase 3-MMP	-2.09
<i>ACC1</i>	Acetyl-CoA carboxylase 1	-1.47
<i>ADF5</i>	Actin-depolymerizing factor 5	2.11
<i>AHL24</i>	AT-hook motif nuclear-localized protein 24	-5.53
<i>AIR3</i>	Subtilisin-like protease SBT5.3	-5.84
<i>AMP1</i>	Probable glutamate carboxypeptidase AMP1	-1.30
<i>ANXA2</i>	Annexin A2	-8.83
<i>AS2</i>	ASYMMETRIC LEAVES 2	10.19
<i>asp</i>	Protein abnormal spindle	1.32
<i>At1g06760</i>	Histone H1	1.42
<i>At1g51060</i>	Probable histone H2A.1	1.90
<i>At1g64390</i>	Endoglucanase 6	-2.65
<i>At1g67360</i>	REF/SRPP-like protein At1g67360	9.30
<i>At1g80180</i>	MAPK kinase substrate protein At1g80180	-1.30
<i>At2g32990</i>	Endoglucanase 11	1.70
<i>At3g01270</i>	Probable pectate lyase 7	1.35
<i>At3g05500</i>	REF/SRPP-like protein At3g05500	4.84
<i>At3g07010</i>	Probable pectate lyase 8	5.25
<i>At3g53190</i>	Probable pectate lyase 12	1.80
<i>At4g02290</i>	Endoglucanase 17	5.02
<i>At4g39010</i>	Endoglucanase 24	-1.36
<i>At5g13200</i>	GEM-like protein 5	3.70
<i>At5g27670</i>	Probable histone H2A.5	2.59
<i>At5g39980</i>	Pentatricopeptide repeat-containing protein At5g39980, chloroplastic	1.10
<i>At5g59910</i>	Histone H2B.11	1.83
<i>At5g45780</i>	Probable LRR receptor-like serine/threonine-protein kinase At5g45780	1.49
<i>At5g63180</i>	Probable pectate lyase 22	-1.50
<i>ATHB-13</i>	Homeobox-leucine zipper protein ATHB-13	-1.31
<i>AUR3</i>	Serine/threonine-protein kinase Aurora-3	2.03
<i>BPS1</i>	Protein BPS1, chloroplastic	7.90
<i>BTU1</i>	Tubulin beta chain	3.37
<i>BUBR1</i>	Mitotic spindle checkpoint protein BUBR1	1.25
<i>CAP1</i>	Cyclase-associated protein 1	1.01
<i>CEL1</i>	Endoglucanase 8	3.29
<i>CFL1</i>	Cofilin-1	-10.22
<i>Cfl2</i>	Cofilin-2	10.07
<i>CHR10</i>	Probable helicase CHR10	-9.18
<i>CHUP1</i>	Protein CHUP1, chloroplastic	-4.05
<i>CLASP</i>	CLIP-associated protein	-1.43
<i>CLPC1</i>	Chaperone protein ClpC1, chloroplastic	3.04
<i>COBL4</i>	COBRA-like protein 4	1.25
<i>COL1A1</i>	Collagen alpha-1(I) chain	10.51
<i>COL1A1</i>	Collagen alpha-1(I) chain	-8.32
<i>col1a2</i>	Collagen alpha-2(I) chain	10.06
<i>COL3A1</i>	Collagen alpha-1(III) chain	-8.52

<i>COL5A2</i>	Collagen alpha-2(V) chain	-9.54
<i>CR4</i>	Serine/threonine-protein kinase-like protein CR4	2.31
<i>CSLD4</i>	Cellulose synthase-like protein D4	2.13
<i>CSLD5</i>	Cellulose synthase-like protein D5	1.56
<i>CSLG3</i>	Cellulose synthase-like protein G3	2.70
<i>CSLH1</i>	Cellulose synthase-like protein H1	-5.57
<i>DCR</i>	BAHD acyltransferase DCR	3.04
<i>DGD2</i>	Digalactosyldiacylglycerol synthase 2, chloroplastic	-1.82
<i>DL</i>	Protein DROOPING LEAF	5.58
<i>DMP3</i>	Protein DMP3	-2.21
<i>DMP9</i>	Protein DMP9	4.94
<i>DRMH1</i>	Dormancy-associated protein homolog 1	5.77
<i>DRP5A</i>	Dynamin-related protein 5A	1.42
<i>DUF1</i>	DUF724 domain-containing protein 1	1.15
<i>DYAD</i>	Protein DYAD	7.13
<i>DYNLL1</i>	Dynein light chain LC6, flagellar outer arm	1.40
<i>EFEMP2</i>	EGF-containing fibulin-like extracellular matrix protein 2	11.23
<i>ERL2</i>	LRR receptor-like serine/threonine-protein kinase ERL2	3.69
<i>EXLB1</i>	Expansin-like B1	8.86
<i>EXPA11</i>	Expansin-A11	3.74
<i>EXPA4</i>	Expansin-A4	1.70
<i>EXPA6</i>	Expansin-A6	-1.10
<i>EXPA8</i>	Expansin-A8	-2.05
<i>EXT3</i>	Extensin-3	-3.77
<i>faeA</i>	Feruloyl esterase A	-6.50
<i>FEI1</i>	LRR receptor-like serine/threonine-protein kinase FEI 1	1.39
<i>FLA1</i>	Fasciclin-like arabinogalactan protein 1	-1.22
<i>FLNA</i>	Filamin-A	-9.90
<i>FLNB</i>	Filamin-B	8.85
<i>FN1</i>	Fibronectin	-8.35
<i>FTIP1</i>	FT-interacting protein 1	1.27
<i>GALS1</i>	Galactan beta-1,4-galactosyltransferase GALS1	2.10
<i>GATA15</i>	GATA transcription factor 15	3.24
<i>GATA18</i>	GATA transcription factor 18	1.77
<i>GLOX1</i>	Aldehyde oxidase GLOX1	-2.41
<i>GMGT1</i>	Galactomannan galactosyltransferase 1	1.66
<i>GPX4</i>	Phospholipid hydroperoxide glutathione peroxidase	9.82
<i>GSN</i>	Gelsolin	9.00
<i>Gsn</i>	Gelsolin	-9.24
<i>H2B.6</i>	Histone H2B.6	3.33
<i>HDG11</i>	Homeobox-leucine zipper protein HDG11	2.53
<i>HIS2B</i>	Histone H2B	1.85
<i>HMGB7</i>	High mobility group B protein 7	1.53
<i>HSL2</i>	LRR receptor-like serine/threonine-protein kinase HSL2	2.46
<i>IDD14</i>	Protein indeterminate-domain 14	1.21
<i>ISE2</i>	DExH-box ATP-dependent RNA helicase DExH15 chloroplastic	-2.19
<i>Itgb1</i>	Integrin beta-1	-8.57
<i>JGB</i>	Protein JINGUBANG	5.43
<i>KIN1</i>	Kinesin-like protein KIN-1	3.51
<i>KIN10A</i>	Kinesin-like protein KIN-10A	1.59

<i>KIN10B</i>	Kinesin-like protein KIN-10B	2.26
<i>KIN10C</i>	Kinesin-like protein KIN-10C	1.17
<i>KIN12D</i>	Kinesin-like protein KIN-12D	1.35
<i>KIN12E</i>	Kinesin-like protein KIN-12E	1.74
<i>KIN12F</i>	Kinesin-like protein KIN-12F	1.21
<i>KIN12F</i>	Kinesin-like protein KIN-12F	2.68
<i>KIN14D</i>	Kinesin-like protein KIN-14D	1.03
<i>KIN14K</i>	Kinesin-like protein KIN-14K	-1.49
<i>KIN14L</i>	Kinesin-like protein KIN-14L	1.96
<i>KIN14P</i>	Kinesin-like protein KIN-14P	-1.66
<i>KIN14R</i>	Kinesin-like protein KIN-14R	1.24
<i>KIN14S</i>	Kinesin-like protein KIN-14S	1.77
<i>KIN4A</i>	Kinesin-like protein KIN-4A	1.02
<i>KIN5D</i>	Kinesin-like protein KIN-5D	1.35
<i>KIN7D</i>	Kinesin-like protein KIN-7D, mitochondrial	1.02
<i>KIN7N</i>	Kinesin-like protein KIN-7N	1.59
<i>KIN8A</i>	Kinesin-like protein KIN-8A	1.25
<i>krt18</i>	Keratin, type I cytoskeletal 18	10.63
<i>LBD27</i>	LOB domain-containing protein 27	1.71
<i>LCV2</i>	Protein LIKE COV 2	-1.35
<i>LNG2</i>	Protein LONGIFOLIA 2	3.64
<i>LOX4</i>	Lipoxygenase 4, chloroplastic	-3.99
<i>MAIL1</i>	Protein MAIN-LIKE 1	1.89
<i>MAP65-3</i>	65-kDa microtubule-associated protein 3	1.20
<i>MIF2</i>	Mini zinc finger protein 2	-8.44
<i>MMD1</i>	PHD finger protein MALE MEIOCYTE DEATH 1	-1.01
<i>MMP2</i>	72 kDa type IV collagenase	9.54
<i>MMP2</i>	72 kDa type IV collagenase	-6.40
<i>MSP1</i>	Leucine-rich repeat receptor protein kinase MSP1	4.24
<i>Myl1</i>	Myosin light chain 1/3, skeletal muscle isoform	-10.62
<i>Myl6</i>	Myosin light polypeptide 6	-11.06
<i>Mylpf</i>	Myosin regulatory light chain 2, skeletal muscle isoform	-11.03
<i>NAC021</i>	NAC domain-containing protein 21/22	2.26
<i>NAC031</i>	Protein CUP-SHAPED COTYLEDON 3	1.67
<i>NAC056</i>	NAC transcription factor 56	-1.71
<i>NAC086</i>	NAC domain-containing protein 86	1.40
<i>NAC098</i>	CUP-SHAPED COTYLEDON 2	3.58
<i>NACK1</i>	Kinesin-like protein NACK1	2.71
<i>NACK2</i>	Kinesin-like protein NACK2	1.77
<i>NEK5</i>	Serine/threonine-protein kinase Nek5	-1.61
<i>NET2A</i>	Protein NETWORKED 2A	-1.33
<i>NET3C</i>	Protein NETWORKED 3C	2.14
<i>NPY1</i>	BTB/POZ domain-containing protein NPY1	1.74
<i>NUP133</i>	Nuclear pore complex protein NUP133	1.04
<i>OBE1</i>	Protein OBERON 1	2.77
<i>Os09g0533900</i>	Endoglucanase 24	1.57
<i>PAE11</i>	Pectin acetylesterase 11	2.51
<i>PAE7</i>	Pectin acetylesterase 7	3.52
<i>PAE8</i>	Pectin acetylesterase 8	2.04
<i>PALLD</i>	Palladin	-8.78
<i>PAP15</i>	Purple acid phosphatase 15	-1.01

<i>PCN</i>	WD repeat-containing protein PCN	-1.24
<i>PDF2</i>	Homeobox-leucine zipper protein PROTODERMAL FACTOR 2	9.05
<i>PHS1</i>	Protein POOR HOMOLOGOUS SYNAPSIS 1	2.44
<i>plaa2</i>	Exopolygalacturonase	1.79
<i>PME15</i>	Probable pectinesterase 15	-8.82
<i>PME17</i>	Probable pectinesterase/pectinesterase inhibitor 17	3.08
<i>PME32</i>	Pectinesterase/pectinesterase inhibitor PPE8B	3.20
<i>PME36</i>	Probable pectinesterase/pectinesterase inhibitor 36	1.78
<i>PME40</i>	Probable pectinesterase/pectinesterase inhibitor 40	1.00
<i>PME53</i>	Probable pectinesterase 53	2.03
<i>PME7</i>	Probable pectinesterase/pectinesterase inhibitor 7	1.01
<i>PMEI10</i>	Pectinesterase inhibitor 10	2.80
<i>PPME1</i>	Pectinesterase PPME1	-1.66
<i>PPME1</i>	Pectinesterase 2	1.56
<i>PS1</i>	FHA domain-containing protein PS1	2.31
<i>PTD</i>	PARTING DANCERS	2.20
<i>PTL</i>	Trihelix transcription factor PTL	1.11
<i>PXC1</i>	Leucine-rich repeat receptor-like protein kinase PXC1	1.36
<i>QKY</i>	QUIRKY	1.77
<i>QUA2</i>	Probable pectin methyltransferase QUA2	1.37
<i>REF6</i>	Lysine-specific demethylase REF6	-3.17
<i>RHD3</i>	Protein ROOT HAIR DEFECTIVE 3	2.87
<i>RHF2A</i>	E3 ubiquitin-protein ligase RHF2A	4.57
<i>RIC4</i>	CRIB domain-containing protein RIC4	-1.15
<i>RMD1</i>	Sporulation protein RMD1	1.12
<i>RPD1</i>	Protein ROOT PRIMORDIUM DEFECTIVE 1	-1.12
<i>RPN12A</i>	26S proteasome non-ATPase regulatory subunit 8 homolog A	2.46
<i>RTNLB1</i>	Reticulon-like protein B1	3.82
<i>SERPINH1</i>	Serpin H1	9.51
<i>SG1</i>	protein SLOW GREEN 1, chloroplastic	-1.01
<i>SIA1</i>	Sialyltransferase-like protein 1	1.01
<i>Smg9</i>	Protein SMG9	1.25
<i>SP1L1</i>	SPIRAL1-like 1	1.98
<i>SRO1</i>	Probable inactive poly [ADP-ribose] polymerase SRO1	4.00
<i>TKPR1</i>	Tetraketide alpha-pyrone reductase 1	3.66
<i>TKPR2</i>	Tetraketide alpha-pyrone reductase 2	1.30
<i>TMSB10</i>	Thymosin beta-10	-12.70
<i>Tmsb4x</i>	Thymosin beta-4	-11.35
<i>Tmsb4x</i>	Thymosin beta-11	12.19
<i>TOR1L2</i>	TORTIFOLIA1-like protein 2	2.59
<i>TOR1L4</i>	TORTIFOLIA1-like protein 4	1.06
<i>TPD1</i>	Protein TAPETUM DETERMINANT 1	9.90
<i>TPM4</i>	Tropomyosin alpha-4 chain	-8.67
<i>TUBA</i>	Tubulin alpha chain	2.64
<i>tuba</i>	Tubulin alpha chain	10.27
<i>TUBA</i>	Tubulin alpha chain	3.09
<i>TUBA</i>	Tubulin alpha-2 chain	-1.02
<i>TUBA1A</i>	Tubulin alpha-1A chain	9.13
<i>TUBA3</i>	Tubulin alpha-3 chain	-1.09
<i>TUBA6</i>	Tubulin alpha-6 chain	2.47

<i>TUBB</i>	Tubulin beta chain	-9.30
<i>TUBB1</i>	Tubulin beta-1 chain	2.29
<i>tubb4</i>	Tubulin beta chain	1.68
<i>TUBB4</i>	Tubulin beta-4 chain	2.05
<i>TUBB4B</i>	Tubulin beta-3 chain	-8.77
<i>TUBB4B</i>	Tubulin beta-4B chain	5.62
<i>ULT2</i>	Protein ULTRAPETALA 2	1.60
<i>VQ29</i>	VQ motif-containing protein 29	9.25
<i>WAV3</i>	E3 ubiquitin-protein ligase WAV3	4.27
<i>Wdr13</i>	WD repeat-containing protein 13	-1.12
<i>WDR55</i>	WD repeat-containing protein 55	1.87
<i>WLIM2B</i>	LIM domain-containing protein WLIM2b	2.72
<i>WOX1</i>	WUSCHEL-related homeobox 1	4.16
<i>WOX11</i>	WUSCHEL-related homeobox 11	9.30
<i>WOX4</i>	WUSCHEL-related homeobox 4	1.75
<i>WOX8</i>	WUSCHEL-related homeobox 8	-1.07
<i>WOX9</i>	WUSCHEL-related homeobox 9	5.79
<i>WRAP73</i>	WD repeat-containing protein WRAP73	1.00
<i>XTH8</i>	Probable xyloglucan endotransglucosylase/hydrolase protein 8	3.28
<i>YAB1</i>	Axial regulator YABBY 1	15.61
<i>YAB5</i>	Axial regulator YABBY 5	9.27
<i>ZPR1</i>	LITTLE ZIPPER 1	-1.03
Cell division/cell differentiation		
<i>5-Aug</i>	AUGMIN subunit 5	-1.52
<i>ACL5</i>	Thermospermine synthase ACAULIS5	2.06
<i>At3g09070</i>	Protein OCTOPUS	1.09
<i>At3g51280</i>	Protein POLLENLESS 3-LIKE 2	3.42
<i>AUR1</i>	Serine/threonine-protein kinase Aurora-1	2.18
<i>BAM1</i>	Leucine-rich repeat receptor-like serine/threonine-protein kinase BAM1	1.59
<i>CCNG1</i>	Cyclin-G1	11.37
<i>CDC2</i>	Cell division control protein 2 homolog	1.02
<i>CDC20-1</i>	Cell division cycle 20.1, cofactor of APC complex	3.07
<i>CDC25</i>	Dual specificity phosphatase Cdc25	1.02
<i>ATHB-14</i>	Homeobox-leucine zipper protein ATHB-14	1.33
<i>CYCB2-3</i>	G2/mitotic-specific cyclin-2	2.86
<i>CYCB2-4</i>	G2/mitotic-specific cyclin-1	2.44
<i>CYCD4-2</i>	Cyclin-D4-2	1.21
<i>DIM1A</i>	Ribosomal RNA small subunit methyltransferase	-2.70
<i>EB1C</i>	Microtubule-associated protein RP/EB family member 1C	1.11
<i>EDE1</i>	Protein ENDOSPERM DEFECTIVE 1	2.78
<i>EPFL2</i>	EPIDERMAL PATTERNING FACTOR-like protein 2	1.54
<i>EPFL4</i>	EPIDERMAL PATTERNING FACTOR-like protein 4	2.39
<i>ERF11</i>	Ethylene-responsive transcription factor 11	9.54
<i>FRL4A</i>	FRIGIDA-like protein 4a	2.80
<i>Fstl1</i>	Follistatin-related protein 1	8.89
<i>FZR3</i>	Protein FIZZY-RELATED 3	2.07
<i>GIF1</i>	GRF1-interacting factor 1	2.57
<i>HD3A</i>	Protein HEADING DATE 3A	5.11
<i>MAD2</i>	Mitotic spindle checkpoint protein MAD2	1.06
<i>MAP65-1</i>	65-kDa microtubule-associated protein 1	1.67

<i>MS5</i>	Protein POLLENLESS 3	2.62
<i>ncapd2</i>	Condensin complex subunit 1	1.91
<i>ncapg</i>	Condensin complex subunit 3	1.15
<i>PATL1</i>	Patellin-1	3.60
<i>PATL3</i>	Patellin-3	-1.07
<i>PATL6</i>	Patellin-6	1.40
<i>REV</i>	Homeobox-leucine zipper protein REVOLUTA	1.46
<i>SCIN</i>	Adseverin	8.78
<i>SCL6</i>	Scarecrow-like protein 6	1.25
<i>SPC25</i>	Kinetochore protein SPC25 homolog	1.07
<i>SPL8</i>	Squamosa promoter-binding-like protein 8	6.55
<i>SYN1</i>	Sister chromatid cohesion 1 protein 1	4.49
<i>SYN2</i>	Sister chromatid cohesion 1 protein 2	1.27
<i>TAGLN</i>	Transgelin	-10.97
<i>TAGLN</i>	Transgelin	8.83
<i>TPX2</i>	Protein TPX2	2.65
<i>UFO</i>	Protein UNUSUAL FLORAL ORGANS	11.58
<i>WUS</i>	Protein WUSCHEL	4.95
Nutrient reservoir		
<i>At2g18540</i>	Vicilin-like seed storage protein At2g18540	1.47
<i>AT2S1</i>	2S seed storage protein 1	-5.29
<i>AT2S2</i>	2S seed storage protein 2	-4.29
<i>AT2S3</i>	2S seed storage protein 3	-9.95
<i>At4g25140</i>	Oleosin 18.5 kDa	10.44
<i>CRA1</i>	12S seed storage protein CRA1	-4.77
<i>CRB</i>	12S seed storage protein CRB	-3.86
<i>CRC</i>	12S seed storage protein CRC	-3.42
<i>CRD</i>	12S seed storage protein CRD	1.56
<i>GLUA1</i>	Glutelin type-A 1	3.44
<i>LEGA</i>	11S globulin seed storage protein 2	8.31
<i>LEGB</i>	Legumin B	10.17
<i>MATP6-A</i>	Oleosin 18.2 kDa	-1.44
Cell redox homeostasis		
<i>At1g08570</i>	Thioredoxin-like 1-1, chloroplastic	1.20
<i>At2g35010</i>	Thioredoxin O1, mitochondrial	1.01
<i>CNGC18</i>	Cyclic nucleotide-gated ion channel 18	2.57
<i>PDIA3</i>	Protein disulfide-isomerase A3	-9.19
<i>PDIL2-1</i>	disulfide-isomerase like 2-1	2.07
<i>TIL</i>	Temperature-induced lipocalin-1	3.60
Others		
<i>N/A</i>	Early nodulin-93	1.91
<i>N/A</i>	Macrophage migration inhibitory factor homolog	1.40
<i>ASP</i>	21 kDa seed protein	2.21
<i>ASY1</i>	Meiosis-specific protein ASY1	1.61
<i>BRPF3</i>	Bromodomain and PHD finger-containing protein 3	2.37
<i>CALD1</i>	Caldesmon	-9.92
<i>FAN1</i>	Fanconi-associated nuclease 1 homolog	-1.31

Table S6. Bio-signaling genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Signal transduction		
<i>N/A</i>	Remorin	4.67
<i>Ankrd13c</i>	Ankyrin repeat domain-containing protein 13C	2.01
<i>ANNAT8</i>	Annexin-like protein RJ4	-2.61
<i>ANXA1</i>	Annexin A1	10.06
<i>ANXA2</i>	Annexin A2	-9.84
<i>anxa2-a</i>	Annexin A2-A	11.36
<i>ANXA5</i>	Annexin A5	-8.90
<i>At3g19850</i>	BTB/POZ domain-containing protein At3g19850	-9.17
<i>At4g30940</i>	BTB/POZ domain-containing protein At4g30940	2.24
<i>ATL29</i>	RING-H2 finger protein ATL29	2.06
<i>ATL67</i>	RING-H2 finger protein ATL67	4.60
<i>BAG1</i>	BAG family molecular chaperone regulator 1	2.00
<i>BEH1</i>	BES1/BZR1 homolog protein 1	9.73
<i>BETVIII</i>	Calcium-binding allergen Bet v 3	-1.05
<i>BI-1</i>	Bax inhibitor 1	4.06
<i>BKI1</i>	BRI1 kinase inhibitor 1	2.32
<i>C/VIF1</i>	Cell wall / vacuolar inhibitor of fructosidase 1	2.97
<i>CAM3</i>	Calmodulin-3	8.07
<i>CBL7</i>	Calcineurin B-like protein 7	2.20
<i>CCM1</i>	Calmodulin	9.18
<i>CCT2</i>	T-complex protein 1 subunit beta	8.74
<i>CD63</i>	CD63 antigen	-9.30
<i>CET2</i>	CEN-like protein 2	-7.60
<i>Cfd</i>	Complement factor D	-9.99
<i>CIPK10</i>	CBL-interacting serine/threonine-protein kinase 10	-1.51
<i>CIPK13</i>	CBL-interacting serine/threonine-protein kinase 13	8.21
<i>CIPK25</i>	CBL-interacting serine/threonine-protein kinase 25	3.18
<i>CIPK3</i>	CBL-interacting serine/threonine-protein kinase 3	-1.00
<i>CIPK5</i>	CBL-interacting protein kinase 5	-1.05
<i>CIPK5</i>	CBL-interacting serine/threonine-protein kinase 5	3.20
<i>CLE27</i>	CLAVATA3/ESR (CLE)-related protein 27	1.03
<i>CLE3</i>	CLAVATA3/ESR (CLE)-related protein 3	2.67
<i>CLU</i>	Clusterin	-9.31
<i>CML14</i>	Probable calcium-binding protein CML14	1.89
<i>CML18</i>	Probable calcium-binding protein CML18	1.34
<i>CML18</i>	Probable calcium-binding protein CML18	8.48
<i>CML28</i>	Probable calcium-binding protein CML28	-1.41
<i>CML41</i>	Probable calcium-binding protein CML41	2.41
<i>CML42</i>	Calcium-binding protein CML42	4.58
<i>CML46</i>	Probable calcium-binding protein CML46	-3.75
<i>COL1A2</i>	Collagen alpha-2(I) chain	-7.09
<i>Col1a2</i>	Collagen alpha-2(I) chain	-9.84
<i>CP1</i>	Calcium-binding protein CP1	2.56
<i>CPR1</i>	F-box protein CPR1	-8.47
<i>crabp2</i>	Cellular retinoic acid-binding protein 2	9.84
<i>DCN</i>	Decorin	-7.60

<i>ERDJ3B</i>	DnaJ protein ERDJ3B	3.54
<i>FD</i>	Protein FD	-1.58
<i>Flna</i>	Filamin-A	9.77
<i>Fth1</i>	Ferritin heavy chain	-10.63
<i>GAD4</i>	Glutamate decarboxylase 4	3.43
<i>GDU1</i>	Protein GLUTAMINE DUMPER 1	4.09
<i>GG3</i>	Guanine nucleotide-binding protein subunit gamma 3	-2.21
<i>GNAS</i>	Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas	-8.56
<i>gnb2l1</i>	Guanine nucleotide-binding protein subunit beta-2-like 1	12.10
<i>GNL2</i>	ARF guanine-nucleotide exchange factor GNL2	1.14
<i>GPI8</i>	GPI-anchor transamidase	1.10
<i>GRF6</i>	14-3-3-like protein GF14 lambda	2.26
<i>Gtp-bp</i>	Signal recognition particle receptor subunit alpha homolog	-1.14
<i>H2-D1</i>	H-2 class I histocompatibility antigen, D-B alpha chain	-9.68
<i>HMGA</i>	HMG-Y-related protein A	2.14
<i>HSPA8</i>	Heat shock cognate 71 kDa protein	-8.90
<i>HTH</i>	Protein HOTHEAD	-7.81
<i>HTRA1</i>	Serine protease HTRA1	-10.05
<i>htra1a</i>	Serine protease HTRA1A	8.90
<i>IFITM1</i>	Interferon-induced transmembrane protein 1	9.90
<i>IP5P7</i>	Type IV inositol polyphosphate 5-phosphatase 7	1.37
<i>IQM1</i>	IQ domain-containing protein IQM1	-1.98
<i>Itm2b</i>	Integral membrane protein 2B	-9.51
<i>KRT8</i>	Keratin, type II cytoskeletal 8	-5.95
<i>LFG2</i>	Protein LIFEGUARD 2	2.16
<i>MAIL3</i>	Serine/threonine-protein phosphatase 7 long form homolog	-12.06
<i>MAKR1</i>	Probable membrane-associated kinase regulator 1	1.65
<i>MYL9</i>	Myosin regulatory light polypeptide 9	-9.88
<i>NAC048</i>	NAC domain-containing protein 48	-4.07
<i>NBP35</i>	Cytosolic Fe-S cluster assembly factor NBP35	3.50
<i>Nupr1</i>	Nuclear protein 1	11.10
<i>Otud3</i>	OTU domain-containing protein 3	2.82
<i>PAT07</i>	Probable protein S-acyltransferase 7	1.40
<i>PBLD</i>	Phenazine biosynthesis-like domain-containing protein	4.10
<i>PDIL1-2</i>	Protein disulfide isomerase-like 1-2	2.20
<i>PFN1</i>	Profilin-1	-10.29
<i>PGIP1</i>	Polygalacturonase inhibitor 1	3.74
<i>PHR2</i>	Blue-light photoreceptor PHR2	-1.14
<i>Psap</i>	Prosaposin	-9.33
<i>PSAP</i>	Prosaposin	-9.13
<i>RAB11B</i>	Ras-related protein Rab11B	2.51
<i>RALF</i>	Rapid alkalization factor	-1.08
<i>RALFL4</i>	Protein RALF-like 4	-1.75
<i>RCOM_0864260</i>	CASP-like protein 2B1	2.23
<i>Rlc-a</i>	Myosin regulatory light chain 2, smooth muscle minor isoform	-9.82
<i>ROPGAP2</i>	Rho GTPase-activating protein 2	1.28
<i>ROPGEF1</i>	Rop guanine nucleotide exchange factor 1	1.85
<i>ROPGEF5</i>	Rop guanine nucleotide exchange factor 5	1.88
<i>RPS3</i>	40S ribosomal protein S3	-8.95
<i>S100A14</i>	Protein S100-A14	9.02

<i>S100A16</i>	Protein S100-A16	9.62
<i>S100B</i>	Protein S100-B	9.66
<i>Scgb1a1</i>	Uteroglobin	-11.73
<i>SDI1</i>	Protein SULFUR DEFICIENCY-INDUCED 1	-1.24
<i>SEC11A</i>	Signal peptidase complex catalytic subunit SEC11A	4.07
<i>Serpinb1b</i>	Leukocyte elastase inhibitor B	9.67
<i>SERPINE1</i>	Plasminogen activator inhibitor 1	-9.07
<i>SLC25A6</i>	ADP/ATP translocase 3	-7.74
<i>SPARC</i>	SPARC	-8.62
<i>Srprb</i>	Signal recognition particle receptor subunit beta	1.11
<i>SRR1</i>	Protein SENSITIVITY TO RED LIGHT REDUCED 1	-1.25
<i>Stxbp5</i>	Syntaxin-binding protein 5	-1.21
<i>TGM2</i>	Protein-glutamine gamma-glutamyltransferase 2	-9.91
<i>Tnfrsf11b</i>	Tumor necrosis factor receptor superfamily member 11B	9.94
<i>TNNC2</i>	Troponin C, skeletal muscle	-11.21
<i>Tnni3</i>	Troponin T, fast skeletal muscle	-11.06
Hormone mediated signaling pathway		
<i>N/A</i>	Auxin-induced protein X10A	-4.94
<i>ABI1</i>	Protein phosphatase 2C 56	1.45
<i>AOC</i>	Allene oxide cyclase, chloroplastic	-3.20
<i>ARF19</i>	Auxin response factor 19	1.04
<i>ARF5</i>	Auxin response factor 5	2.24
<i>ARF9</i>	Auxin response factor 9	2.52
<i>ARR17</i>	Two-component response regulator ARR17	3.74
<i>ARR9</i>	Two-component response regulator ARR9	-1.59
<i>At1g54200</i>	Protein BIG GRAIN 1-like B	2.27
<i>At1g80440</i>	F-box/kelch-repeat protein At1g80440	4.47
<i>At2g30020</i>	Probable protein phosphatase 2C 25	-1.10
<i>At4g13040</i>	Ethylene-responsive transcription factor-like protein At4g13040	-1.57
<i>AUX22D</i>	Auxin-induced protein 22D	2.53
<i>CDKB2-2</i>	Cyclin-dependent kinase B2-2	2.08
<i>CIP1</i>	COP1-interactive protein 1	-1.05
<i>CUL1</i>	Cullin-1	-9.35
<i>DRM1</i>	Auxin-repressed 12.5 kDa protein	-1.44
<i>EBF2</i>	EIN3-binding F-box protein 2	-1.23
<i>EIN3</i>	ETHYLENE INSENSITIVE 3	-1.14
<i>ERF010</i>	Ethylene-responsive transcription factor ERF010	-2.43
<i>ERF034</i>	Ethylene-responsive transcription factor ERF034	2.05
<i>ERF061</i>	Ethylene-responsive transcription factor ERF061	-1.60
<i>ERF071</i>	Ethylene-responsive transcription factor ERF071	2.69
<i>ERF073</i>	Ethylene-responsive transcription factor ERF073	2.07
<i>ERF087</i>	Ethylene-responsive transcription factor ERF087	-2.69
<i>ERF110</i>	Ethylene-responsive transcription factor ERF110	-5.90
<i>ERF14</i>	Ethylene-responsive transcription factor 14	8.78
<i>ERF1B</i>	Ethylene-responsive transcription factor 1B	-4.65
<i>ERF2</i>	Ethylene-responsive transcription factor 2	9.52
<i>ERF5</i>	Ethylene-responsive transcription factor 5	-3.21
<i>GAIPB</i>	DELLA protein GAIP-B	2.35
<i>GASA11</i>	Gibberellin-regulated protein 11	-6.63
<i>GASA4</i>	Gibberellin-regulated protein 4	8.57
<i>HAB1</i>	Protein phosphatase 2C 16	1.61

<i>HLS1</i>	Probable N-acetyltransferase HLS1	-3.34
<i>IAA1</i>	Auxin-responsive protein IAA1	2.16
<i>IAA13</i>	Auxin-responsive protein IAA13	1.16
<i>IAA20</i>	Auxin-responsive protein IAA20	5.53
<i>IAA26</i>	Auxin-responsive protein IAA26	1.41
<i>IAA31</i>	Auxin-responsive protein IAA31	10.00
<i>IAA8</i>	Auxin-responsive protein IAA8	1.76
<i>IAA9</i>	Auxin-responsive protein IAA9	3.21
<i>KEG</i>	E3 ubiquitin-protein ligase KEG	-10.13
<i>LRP1</i>	Protein LATERAL ROOT PRIMORDIUM 1	2.24
<i>MARD1</i>	Protein MARD1	1.89
<i>MSPR10-1</i>	Major allergen Pru ar 1	-2.57
<i>NHL6</i>	NDR1/HIN1-like protein 6	-2.94
<i>NPR6</i>	Regulatory protein NPR6	1.13
<i>PARC</i>	Probable glutathione S-transferase	-2.38
<i>PCKR3</i>	Major allergen Api g 1, isoallergen 2	4.66
<i>PIN1B</i>	Probable auxin efflux carrier component 1b	1.99
<i>PIN1C</i>	Probable auxin efflux carrier component 1c	2.61
<i>PIN6</i>	Auxin efflux carrier component 6	-1.96
<i>PRP1</i>	Probable glutathione S-transferase	-1.76
<i>PYL5</i>	Abscisic acid receptor PYL5	2.41
<i>PYL7</i>	Abscisic acid receptor PYL7	3.67
<i>PYR1</i>	Abscisic acid receptor PYR1	3.14
<i>RAP2-3</i>	Ethylene-responsive transcription factor RAP2-3	-2.68
<i>RGLG1</i>	E3 ubiquitin-protein ligase RGLG1	3.98
<i>RNL</i>	tRNA ligase 1	1.94
<i>RR10</i>	Two-component response regulator ORR10	-1.46
<i>SAPK2</i>	Serine/threonine-protein kinase SAPK2	1.13
<i>SAUR32</i>	Auxin-responsive protein SAUR32	-1.92
<i>SAUR36</i>	Auxin-responsive protein SAUR36	-2.51
<i>SAUR50</i>	Auxin-responsive protein SAUR50	4.58
<i>SAUR71</i>	Auxin-responsive protein SAUR71	-2.95
<i>SAUR72</i>	Auxin-responsive protein SAUR72	-1.65
<i>SHN3</i>	Ethylene-responsive transcription factor SHINE 3	-2.03
<i>SKP1A</i>	SKP1-like protein 1A	8.70
<i>SRK2E</i>	Serine/threonine-protein kinase SRK2E	3.47
<i>SRT1</i>	NAD-dependent protein deacetylase SRT1	1.01
<i>SRT2</i>	NAD-dependent protein deacetylase SRT2	1.00
<i>TIFY6B</i>	Protein TIFY 6B	-1.08
<i>TIMP1</i>	Metalloproteinase inhibitor 1	-10.48
<i>Timp2</i>	Metalloproteinase inhibitor 2	11.30
<i>TPL</i>	Protein TOPLESS	-1.44
<i>TTL1</i>	TPR repeat-containing thioredoxin TTL1	1.22
<i>VAB</i>	VAN3-binding protein	2.04
Protein kinase		
<i>ACTA2</i>	Actin, aortic smooth muscle	-8.28
<i>AFC2</i>	Serine/threonine-protein kinase AFC2	-1.64
<i>ASK3</i>	Shaggy-related protein kinase gamma	3.30
<i>At1g12460</i>	Probable LRR receptor-like serine/threonine-protein kinase At1g12460	2.01
<i>At2g23950</i>	Probable LRR receptor-like serine/threonine-protein kinase At2g23950	1.64
<i>At2g24230</i>	Probable LRR receptor-like serine/threonine-protein kinase At2g24230	1.70

<i>At2g40270</i>	Inactive receptor-like serine/threonine-protein kinase At2g40270	8.42
<i>At2g44130</i>	F-box/kelch-repeat protein At2g44130	-1.21
<i>At3g03770</i>	Probable inactive leucine-rich repeat receptor-like protein kinase At3g03770	1.91
<i>At3g05640</i>	Probable protein phosphatase 2C 34	-3.02
<i>At3g47570</i>	Probable LRR receptor-like serine/threonine-protein kinase At3g47570	-1.02
<i>At3g51470</i>	Probable protein phosphatase 2C 47	4.39
<i>At3g51990</i>	Serine/threonine-protein kinase-like protein At3g51990	-1.02
<i>At4g28400</i>	Probable protein phosphatase 2C 58	-1.37
<i>At4g36180</i>	Probable LRR receptor-like serine/threonine-protein kinase At4g36180	1.77
<i>At5g05200</i>	Uncharacterized aarF domain-containing protein kinase At5g05200, chloroplastic	-1.03
<i>At5g18400</i>	Anamorsin homolog	3.29
<i>At5g67200</i>	Probable inactive receptor kinase At5g67200	1.26
<i>ATPK2</i>	Serine/threonine-protein kinase AtPK2/AtPK19	8.79
<i>ATR</i>	Serine/threonine-protein kinase ATR	1.90
<i>BLUS1</i>	Serine/threonine-protein kinase BLUS1	-1.96
<i>BRL2</i>	Brassinosteroid LRR receptor kinase BRL2	-4.01
<i>BSK2</i>	Serine/threonine-protein kinase BSK2	1.64
<i>BSL1</i>	Serine/threonine-protein phosphatase BSL1	4.89
<i>CCR2</i>	Serine/threonine-protein kinase-like protein CCR2	2.06
<i>Cdc7</i>	Cell division cycle 7-related protein kinase	1.41
<i>Ckm</i>	Creatine kinase M-type	-11.11
<i>CRK25</i>	Cysteine-rich receptor-like protein kinase 25	-1.99
<i>CRK36</i>	Cysteine-rich receptor-like protein kinase 36	1.01
<i>CYCA1-1</i>	Cyclin-A1-1	3.45
<i>CYCA2-1</i>	Cyclin-A2-1	1.39
<i>CYCA2-4</i>	Cyclin-A2-4	1.90
<i>CYCA3-2</i>	Cyclin-A3-2	2.06
<i>CYCD3-3</i>	Cyclin-D3-3	1.12
<i>CYCD4-1</i>	Cyclin-D4-1	1.07
<i>CYCD5-1</i>	Cyclin-D5-1	1.05
<i>CYCD6-1</i>	Cyclin-D6-1	-1.77
<i>CYCP3-1</i>	Cyclin-P3-1	2.03
<i>CYCU4-1</i>	Cyclin-U4-1	-1.49
<i>D6PKL2</i>	Protein kinase PVPK-1	1.00
<i>GRIK2</i>	Serine/threonine-protein kinase GRIK2	-1.18
<i>HD16</i>	Casein kinase 1-like protein HD16	4.63
<i>HT1</i>	Serine/threonine/tyrosine-protein kinase HT1	3.42
<i>ILK1</i>	Integrin-linked protein kinase 1	2.28
<i>IMK3</i>	Probable leucine-rich repeat receptor-like protein kinase IMK3	3.72
<i>KINB2</i>	SNF1-related protein kinase regulatory subunit beta-2	-2.13
<i>KING1</i>	SNF1-related protein kinase regulatory subunit gamma-1	9.17
<i>KRP7</i>	Cyclin-dependent kinase inhibitor 7	1.73
<i>LECRKS5</i>	Probable L-type lectin-domain containing receptor kinase S.5	-1.63
<i>LYK2</i>	Protein LYK2	3.27
<i>LYK5</i>	LYK5	-2.71
<i>MAPKKK17</i>	Mitogen-activated protein kinase kinase kinase 17	-1.22
<i>MIK1</i>	MDIS1-interacting receptor like kinase 1	5.61
<i>MKK9</i>	Mitogen-activated protein kinase kinase 9	-2.16
<i>MPK3</i>	Mitogen-activated protein kinase 3	-2.71

<i>NEK2</i>	Serine/threonine-protein kinase Nek2	1.10
<i>NEK6</i>	Serine/threonine-protein kinase Nek6	-1.46
<i>NIK3</i>	Protein NSP-INTERACTING KINASE 3	2.51
<i>NPG1</i>	Protein NPG1	1.41
<i>Os01g0656200</i>	Probable protein phosphatase 2C 8	-2.84
<i>OsI_35105</i>	Pyruvate kinase 1, cytosolic	3.51
<i>OXI1</i>	Serine/threonine-protein kinase OXI1	9.39
<i>PBL10</i>	Probable serine/threonine-protein kinase PBL10	-1.20
<i>PERK1</i>	Proline-rich receptor-like protein kinase PERK1	1.80
<i>PERK10</i>	Proline-rich receptor-like protein kinase PERK10	1.39
<i>PERK3</i>	Proline-rich receptor-like protein kinase PERK3	1.81
<i>PERK4</i>	Proline-rich receptor-like protein kinase PERK4	-3.16
<i>PHY1</i>	Light-sensor Protein kinase	1.59
<i>PID</i>	Protein kinase PINOID	3.87
<i>PIP5K2</i>	Phosphatidylinositol 4-phosphate 5-kinase 2	1.02
<i>PPCK2</i>	Phosphoenolpyruvate carboxylase kinase 2	8.99
<i>PPDK</i>	Pyruvate, phosphate dikinase 1, chloroplastic	4.08
<i>PPX2</i>	Serine/threonine-protein phosphatase PP-X isozyme 2	3.52
<i>PRK4</i>	Pollen receptor-like kinase 4	-1.65
<i>PSKR1</i>	Phytosulfokine receptor 1	-4.69
<i>PSY1R</i>	Tyrosine-sulfated glycopeptide receptor 1	-3.74
<i>PTI13</i>	PTI1-like tyrosine-protein kinase 3	5.00
<i>PUB14</i>	U-box domain-containing protein 14	3.31
<i>PUB34</i>	U-box domain-containing protein 34	-1.21
<i>PUB38</i>	U-box domain-containing protein 38	-1.50
<i>PUB51</i>	U-box domain-containing protein 51	-1.80
<i>PV42A</i>	SNF1-related protein kinase regulatory subunit gamma-like PV42a	-3.56
<i>PXC3</i>	Leucine-rich repeat receptor-like tyrosine-protein kinase PXC3	2.57
<i>RCH2</i>	Receptor-like protein kinase 2	-1.17
<i>RGI3</i>	LRR receptor-like serine/threonine-protein kinase	1.60
<i>RKL1</i>	Probable inactive receptor kinase At1g48480	1.61
<i>SMR15</i>	Cyclin-dependent protein kinase inhibitor SMR15	1.12
<i>THE1</i>	Receptor-like protein kinase THESEUS 1	-1.15
<i>TIO</i>	Serine/threonine-protein kinase TIO	-2.39
<i>TMK1</i>	Receptor protein kinase TMK1	-1.18
<i>V-FGR</i>	Tyrosine-protein kinase transforming protein Fgr	12.40
<i>WAKL15</i>	Wall-associated receptor kinase-like 15	3.06
<i>WAKL20</i>	Wall-associated receptor kinase-like 20	-4.77
<i>wif1</i>	Wnt inhibitory factor 1	10.11
<i>WNK1</i>	Serine/threonine-protein kinase WNK1	1.57
<i>WNK11</i>	Probable serine/threonine-protein kinase WNK11	1.39
<i>XLG3</i>	Extra-large guanine nucleotide-binding protein 3	-1.98

Table S7. Stress response genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Heat shock protein		
<i>AHSA1</i>	Activator of 90 kDa heat shock protein ATPase homolog 1	3.29
<i>hsc71</i>	Heat shock cognate 70 kDa protein	-8.44
<i>HSP17.6</i>	17.6 kDa class II heat shock protein	6.06
<i>HSP17.6B</i>	17.6 kDa class I heat shock protein 2	8.02
<i>HSP17.6C</i>	17.6 kDa class I heat shock protein 3	4.72
<i>HSP17.7</i>	17.1 kDa class II heat shock protein	1.44
<i>HSP18.1</i>	18.1 kDa class I heat shock protein	9.64
<i>HSP18.2</i>	18.2 kDa class I heat shock protein	3.72
<i>HSP18.5-C</i>	18.5 kDa class I heat shock protein	1.01
<i>HSP22.0</i>	22.0 kDa class IV heat shock protein	2.51
<i>HSP23.6</i>	23.6 kDa heat shock protein, mitochondrial	-4.44
<i>HSP26.5</i>	26.5 kDa heat shock protein, mitochondrial	8.75
<i>HSP70-14</i>	Heat shock 70 kDa protein 14	4.41
<i>HSP70-5</i>	Heat shock 70 kDa protein 5	9.70
<i>HSP70-9</i>	Heat shock 70 kDa protein 9, mitochondrial	8.64
<i>HSP90-2</i>	Heat shock protein 90-2	3.13
<i>HSP90-4</i>	Heat shock protein 90-4	8.55
<i>HSP90AA1</i>	Heat shock protein HSP 90-alpha	-9.07
<i>HSPA8</i>	Heat shock cognate 71 kDa protein	-8.90
<i>hspa8</i>	Heat shock cognate 71 kDa protein	8.20
<i>HSP70</i>	Heat shock cognate 70 kDa protein	-1.11
Abiotic stress		
<i>N/A</i>	Desiccation-related protein PCC13-62	1.34
<i>ABCG11</i>	ABC transporter G family member 11	7.35
<i>ACR8</i>	ACT domain-containing protein ACR8	2.54
<i>ACT2</i>	Actin-2	1.78
<i>ADH1</i>	Alcohol dehydrogenase class-P	3.79
<i>AHK4</i>	Histidine kinase 4	1.75
<i>ALDH3H1</i>	Aldehyde dehydrogenase family 3 member H1	-2.47
<i>APS2</i>	ATP sulfurylase 2	-1.60
<i>ARG7</i>	Indole-3-acetic acid-induced protein ARG7	1.32
<i>ARIA</i>	ARM REPEAT PROTEIN INTERACTING WITH ABF2	1.28
<i>At1g04770</i>	Protein SULFUR DEFICIENCY-INDUCED 2	3.32
<i>At1g18250</i>	Osmotin-like protein	1.55
<i>At1g59620</i>	Probable disease resistance protein At1g59620	-1.70
<i>At1g75040</i>	Pathogenesis-related protein 5	-6.12
<i>At2g14610</i>	Pathogenesis-related protein 1	-8.99
<i>At3g16530</i>	Lectin-like protein At3g16530	3.64
<i>At3g17800</i>	UV-B-induced protein At3g17800, chloroplastic	8.41
<i>At3g26430</i>	Esterase	-2.62
<i>At3g28600</i>	AAA-ATPase At3g28600	-10.18
<i>At4g32940</i>	Vacuolar-processing enzyme gamma-isozyme	3.22
<i>At5g05600</i>	Probable 2-oxoglutarate-dependent dioxygenase At5g05600	-4.10
<i>ATJ8</i>	Chaperone protein dnaJ 8, chloroplastic	3.29
<i>ATL24</i>	NEP1-interacting protein-like 2	3.73
<i>BAP1</i>	BON1-associated protein 1	3.46

<i>BIP4</i>	Luminal-binding protein 4	-1.68
<i>BSMT1</i>	Salicylate/benzoate carboxyl methyltransferase	-1.13
<i>BZIP9</i>	Basic leucine zipper 9	1.97
<i>CAMBP25</i>	Calmodulin-binding protein 25	1.57
<i>CAMTA5</i>	Calmodulin-binding transcription activator 5	-2.48
<i>CAT1</i>	Catalase-1	3.95
<i>CAT2</i>	Catalase-2	4.88
<i>CAT3</i>	Catalase-3	2.98
<i>CHY1</i>	3-hydroxyisobutyryl-CoA hydrolase 1	1.24
<i>CIPK21</i>	CBL-interacting serine/threonine-protein kinase 21	-2.57
<i>CML9</i>	Calmodulin-like protein 9	2.62
<i>Col3a1</i>	Collagen alpha-1(III) chain	-10.35
<i>COPT6</i>	Copper transporter 6	3.78
<i>CP12-3</i>	Calvin cycle protein CP12-3, chloroplastic	4.45
<i>CPC</i>	Transcription factor CPC	-1.10
<i>CRPK1</i>	Cold-responsive protein kinase 1	-1.04
<i>CRRSP55</i>	Cysteine-rich repeat secretory protein 55	3.58
<i>CRT1</i>	Calreticulin-1	2.10
<i>CYCLASE1</i>	Cyclase-like protein 1	3.76
<i>CYP81F2</i>	Cytochrome P450 81F2	3.43
<i>CYS4</i>	Cysteine proteinase inhibitor 4	9.69
<i>CYS6</i>	Cysteine proteinase inhibitor 6	4.95
<i>DRM1</i>	Dormancy-associated protein 1	4.72
<i>ERD14</i>	Dehydrin ERD14	4.04
<i>ERD15</i>	Protein EARLY RESPONSIVE TO DEHYDRATION 15	3.80
<i>ERD7</i>	Protein EARLY-RESPONSIVE TO DEHYDRATION 7, chloroplastic	4.27
<i>ERECTA</i>	LRR receptor-like serine/threonine-protein kinase ERECTA	3.69
<i>ERF012</i>	Ethylene-responsive transcription factor ERF012	4.50
<i>EXL2</i>	Protein EXORDIUM-like 2	3.50
<i>FAD-OXR</i>	Berberine bridge enzyme-like 22	3.06
<i>FAMT</i>	Farnesoic acid carboxyl-O-methyltransferase	-13.41
<i>FAX5</i>	Protein FATTY ACID EXPORT 5	8.38
<i>FQR1</i>	NAD(P)H dehydrogenase (quinone) FQR1	1.86
<i>GH3.1</i>	Probable indole-3-acetic acid-amido synthetase GH3.1	5.84
<i>GH3.6</i>	Probable indole-3-acetic acid-amido synthetase GH3.6	-1.42
<i>HAT22</i>	Homeobox-leucine zipper protein HAT22	2.07
<i>Hba</i>	Hemoglobin subunit alpha	-11.54
<i>Hbb-b1</i>	Hemoglobin subunit beta-1	-11.83
<i>HDT3</i>	Histone deacetylase HDT3	2.97
<i>HSPRO2</i>	Nematode resistance protein-like HSPRO2	9.01
<i>HVA22A</i>	HVA22-like protein a	-1.32
<i>krt8</i>	Intermediate filament protein ON3	9.66
<i>LA1</i>	Protein LAZY 1	1.64
<i>LECRK2</i>	G-type lectin S-receptor-like serine/threonine-protein kinase LECRK2	-4.86
<i>LECRK3</i>	G-type lectin S-receptor-like serine/threonine-protein kinase LECRK3	4.03
<i>LRR1</i>	Leucine-rich repeat protein 1	2.30
<i>LTi65</i>	Low-temperature-induced 65 kDa protein	-1.06
<i>MED37D</i>	Probable mediator of RNA polymerase II transcription subunit 37c	2.43
<i>MED37F</i>	Mediator of RNA polymerase II transcription subunit 37f	2.03
<i>MEE14</i>	CCG-binding protein 1	3.91
<i>MGL</i>	Methionine gamma-lyase	11.82

<i>MLP329</i>	MLP-like protein 329	-1.22
<i>MLP34</i>	MLP-like protein 34	-8.09
<i>Mmp2</i>	72 kDa type IV collagenase	9.70
<i>MPSR1</i>	E3 ubiquitin-protein ligase MPSR1	4.48
<i>Mtnd1</i>	NADH-ubiquinone oxidoreductase chain 1	-10.76
<i>MYB102</i>	Transcription factor MYB102	-4.17
<i>MYB16</i>	Transcription factor MYB16	2.77
<i>MYB2</i>	Transcription factor MYB2	-5.60
<i>MYB20</i>	Transcription factor MYB20	2.02
<i>MYB3</i>	Transcription factor MYB3	-2.45
<i>MYB5</i>	Transcription repressor MYB5	-1.42
<i>MYB78</i>	Transcription factor MYB78	-1.90
<i>NAC002</i>	NAC domain-containing protein 2	3.78
<i>NAC102</i>	NAC domain-containing protein 102	3.03
<i>NDA1</i>	Internal alternative NAD(P)H-ubiquinone oxidoreductase A1, mitochondrial	-1.40
<i>NFD4</i>	NUCLEAR FUSION DEFECTIVE 4	2.65
<i>NOI4</i>	Protein NOI4	4.02
<i>NPF4.3</i>	Protein NRT1/ PTR FAMILY 4.3	-3.18
<i>NPR1</i>	BTB/POZ domain and ankyrin repeat-containing protein NPR1	-1.23
<i>ORS1</i>	Protein ORGAN SIZE RELATED 1	3.08
<i>PBL16</i>	Probable serine/threonine-protein kinase PBL16	1.15
<i>PBL23</i>	Probable serine/threonine-protein kinase PBL23	1.28
<i>PBP1</i>	Calcium-binding protein PBP1	2.79
<i>PCAP1</i>	Plasma membrane-associated cation-binding protein 1	3.26
<i>PCO1</i>	Plant cysteine oxidase 1	3.27
<i>PCO2</i>	Plant cysteine oxidase 2	3.42
<i>PCR2</i>	Protein PLANT CADMIUM RESISTANCE 2	9.46
<i>PDC2</i>	Pyruvate decarboxylase 2	6.48
<i>PDIL2-3</i>	disulfide-isomerase 2-3	3.59
<i>PER19</i>	Peroxidase 19	-1.76
<i>PER26</i>	Probable peroxidase 26	2.47
<i>PER40</i>	Peroxidase 40	6.73
<i>PI4KG5</i>	Phosphatidylinositol 4-kinase gamma 5	3.19
<i>PICBP</i>	Calmodulin binding protein PICBP	-2.36
<i>PLAT1</i>	PLAT domain-containing protein 1	3.96
<i>PLDALPHA 4</i>	Phospholipase D alpha 4	1.13
<i>PRB1</i>	Pathogenesis-related protein 1	-3.91
<i>PRUA1</i>	Major allergen Pru av 1	-1.22
<i>PS2</i>	Inorganic pyrophosphatase 1	4.40
<i>PUB21</i>	U-box domain-containing protein 21	-3.33
<i>PUB26</i>	U-box domain-containing protein 26	2.83
<i>PYM</i>	POLYHOME	1.35
<i>RACK1</i>	Receptor of activated protein C kinase 1	-8.43
<i>RBG4</i>	Glycine-rich RNA-binding protein 4, mitochondrial	1.54
<i>RBOHD</i>	Respiratory burst oxidase homolog protein D	3.01
<i>RD22</i>	BURP domain protein RD22	9.42
<i>RIPt</i>	Beta-galactoside-specific lectin 3	-8.20
<i>Rplp2</i>	60S acidic ribosomal protein P2	10.95
<i>RVE6</i>	Protein REVEILLE 6	1.46

<i>Saa3</i>	Serum amyloid A-3 protein	-9.99
<i>SAG21</i>	Protein SENESENCE-ASSOCIATED GENE 21, mitochondrial	3.82
<i>SDIR1</i>	E3 ubiquitin-protein ligase SDIR1	-1.75
<i>SIZ1</i>	E3 SUMO-protein ligase SIZ1	4.40
<i>SLE3</i>	Protein SLE3	-1.49
<i>SN1</i>	Snakin-1	3.82
<i>SNAP33</i>	SNAP25 homologous protein SNAP33	3.18
<i>SOT12</i>	Cytosolic sulfotransferase 12	-1.28
<i>SPARC</i>	SPARC	10.29
<i>SRC2</i>	Protein SRC2 homolog	3.98
<i>SRO5</i>	Probable inactive poly [ADP-ribose] polymerase SRO5	2.87
<i>SUS1</i>	Sucrose synthase 1	2.66
<i>TAR2</i>	Tryptophan aminotransferase-related protein 2	1.50
<i>TRX5</i>	Thioredoxin H5	-1.42
<i>TTL4</i>	TPR repeat-containing thioredoxin TTL4	2.88
<i>UGT85K5</i>	Linamarin synthase 2	-3.32
<i>ULP1D</i>	Ubiquitin-like-specific protease 1D	2.71
<i>VQ18</i>	VQ motif-containing protein 18	4.85
<i>VQ20</i>	VQ motif-containing protein 20	1.24
<i>WRKY23</i>	WRKY transcription factor 23	-1.55
<i>WRKY33</i>	Probable WRKY transcription factor 33	3.40
<i>WRKY70</i>	Probable WRKY transcription factor 70	-3.04
<i>WSCP</i>	Kunitz trypsin inhibitor 2	-9.73
Biotic stress		
<i>N/A</i>	Non-specific lipid-transfer protein 1	8.82
<i>AAE3</i>	Oxalate--CoA ligase	-12.13
<i>ADF4</i>	Actin-depolymerizing factor 4	-1.01
<i>AGO5</i>	Protein argonaute 5	1.27
<i>AHL20</i>	AT-hook motif nuclear-localized protein 20	-8.55
<i>AMP2-2</i>	Vicilin-like antimicrobial peptides 2-2	-7.21
<i>At3g59930</i>	Defensin-like protein 206	-9.44
<i>At4g20830</i>	Berberine bridge enzyme-like 19	3.19
<i>ATL6</i>	E3 ubiquitin-protein ligase ATL6	-1.44
<i>ATTI1</i>	Defensin-like protein 195	2.86
<i>B2m</i>	Beta-2-microglobulin	-10.25
<i>b2m</i>	Beta-2-microglobulin	9.22
<i>BAG6</i>	BAG family molecular chaperone regulator 6	8.64
<i>BAH1</i>	E3 ubiquitin-protein ligase BAH1	5.27
<i>BBD1</i>	Bifunctional nuclease 1	3.21
<i>BIG5</i>	Brefeldin A-inhibited guanine nucleotide-exchange protein 5	9.13
<i>BIR2</i>	Inactive LRR receptor-like serine/threonine-protein kinase BIR2	8.23
<i>Ca3</i>	Carbonic anhydrase 3	-10.70
<i>CRK8</i>	Cysteine-rich receptor-like protein kinase 8	-1.27
<i>CRN</i>	Inactive leucine-rich repeat receptor-like protein kinase CORYNE	2.89
<i>CYP81D11</i>	Cytochrome P450 81D11	3.93
<i>EDR4</i>	Protein ENHANCED DISEASE RESISTANCE 4	-1.08
<i>eef-2</i>	Elongation factor 2	8.84
<i>ELF5A-2</i>	Eukaryotic translation initiation factor 5A-2	2.14
<i>EXO70B1</i>	Exocyst complex component EXO70B1	9.78
<i>HEL</i>	Hevein-like preproprotein	2.51
<i>HIR3</i>	Hypersensitive-induced response protein 3	2.52

<i>Hp</i>	Haptoglobin	-8.84
<i>KTI1</i>	Kunitz trypsin inhibitor 4	2.42
<i>LYK3</i>	LysM domain receptor-like kinase 3	-1.24
<i>LYK4</i>	LysM domain receptor-like kinase 4	-3.47
<i>Lyz2</i>	Lysozyme C-2	-10.97
<i>MES1</i>	Methylesterase 1	7.05
<i>MLO2</i>	MLO-like protein 2	2.11
<i>NHL10</i>	NDR1/HIN1-like protein 10	3.38
<i>NHL13</i>	NDR1/HIN1-like protein 13	1.84
<i>NHL3</i>	NDR1/HIN1-like protein 3	3.28
<i>OSM34</i>	Osmotin-like protein OSM34	2.91
<i>PBL13</i>	Serine/threonine-protein kinase PBL13	3.21
<i>PCRK1</i>	Serine/threonine-protein kinase PCRK1	-1.58
<i>PDF2.5</i>	Defensin-like protein	4.89
<i>PHOS34</i>	Universal stress protein PHOS34	2.05
<i>PII-2</i>	Piriformospora indica-insensitive protein 2	6.84
<i>PR5K</i>	PR5-like receptor kinase	4.38
<i>RCA</i>	Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic	3.22
<i>RCA</i>	Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic	5.41
<i>RLM1A</i>	Disease resistance protein RML1A	3.58
<i>RLP51</i>	Receptor-like protein 51	1.93
<i>SAG20</i>	Senescence associated gene 20	4.23
<i>SDF2</i>	Stromal cell-derived factor 2-like protein	2.99
<i>TET8</i>	Tetraspanin-8	2.23
<i>TIFY10A</i>	Protein TIFY 10A	8.65
<i>TIFY3B</i>	Protein TIFY 3B	2.52
<i>TLP1</i>	Thaumatococcus-like protein 1	4.38
<i>WIN1</i>	Pathogenesis-related protein PR-4B	-6.33
<i>WRKY17</i>	Probable WRKY transcription factor 17	8.51

Table S8. Translation genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Ribosomal protein		
<i>ARP1</i>	60S ribosomal protein L3-1	-1.77
<i>CTHT_0041970.2</i>	40S ribosomal protein S24	4.27
<i>Os08g0130500</i>	60S acidic ribosomal protein P0	2.10
<i>rpl10</i>	60S ribosomal protein L10	10.85
<i>RPL10A</i>	60S ribosomal protein L10a	-9.37
<i>rpl10a</i>	60S ribosomal protein L10a	12.25
<i>RPL10C</i>	60S ribosomal protein L10-3	2.28
<i>RPL11</i>	60S ribosomal protein L11	-9.30
<i>rpl11</i>	60S ribosomal protein L11	12.07
<i>RPL12</i>	60S ribosomal protein L12	12.13
<i>rpl1202</i>	60S ribosomal protein L12-B	7.78
<i>RPL12A</i>	50S ribosomal protein L12-1, chloroplastic	8.87
<i>RPL13</i>	60S ribosomal protein L13	8.23
<i>Rpl13</i>	60S ribosomal protein L13	12.15
<i>RPL13A</i>	60S ribosomal protein L13a	11.82
<i>RPL14</i>	60S ribosomal protein L14	10.88
<i>RPL15</i>	60S ribosomal protein L15	-8.47
<i>rpl15</i>	60S ribosomal protein L15	11.74
<i>rpl16</i>	50S ribosomal protein L16, plastid	-1.03
<i>RPL17</i>	60S ribosomal protein L17	-9.43
<i>Rpl17</i>	60S ribosomal protein L17	12.57
<i>RPL18</i>	50S ribosomal protein L18, chloroplastic	1.11
<i>rpl18</i>	60S ribosomal protein L18	11.55
<i>rpl18a</i>	60S ribosomal protein L18a	11.83
<i>RPL19</i>	60S ribosomal protein L19	-8.57
<i>rpl19</i>	60S ribosomal protein L19	10.89
<i>RPL21</i>	60S ribosomal protein L21	11.06
<i>Rpl22</i>	60S ribosomal protein L22	10.70
<i>RPL22B</i>	60S ribosomal protein L22-2	2.14
<i>RPL23</i>	60S ribosomal protein L23	12.86
<i>RPL23A</i>	60S ribosomal protein L23A	2.95
<i>RPL23A</i>	60S ribosomal protein L23a	12.63
<i>RPL24</i>	60S ribosomal protein L24	11.61
<i>RPL24B</i>	60S ribosomal protein L24-2	2.08
<i>RPL26</i>	60S ribosomal protein L26	5.02
<i>RPL26</i>	60S ribosomal protein L26	12.27
<i>rpl27</i>	60S ribosomal protein L27	11.08
<i>RPL27A</i>	60S ribosomal protein L27a	4.74
<i>RPL27A</i>	60S ribosomal protein L27a	11.64
<i>RPL27A</i>	60S ribosomal protein L27a	-9.23
<i>RPL28</i>	50S ribosomal protein L28, chloroplastic	1.60
<i>Rpl28</i>	60S ribosomal protein L28	12.10
<i>RPL29</i>	60S ribosomal protein L29	10.86
<i>RPL3</i>	60S ribosomal protein L3	11.86
<i>RPL3</i>	Ribosomal protein L3	1.85
<i>rpl30</i>	60S ribosomal protein L30	11.83

<i>RPL30</i>	60S ribosomal protein L30	8.92
<i>RPL31</i>	60S ribosomal protein L31	-9.24
<i>rpl31</i>	60S ribosomal protein L31	12.10
<i>rpl32</i>	60S ribosomal protein L32	11.86
<i>rpl34</i>	60S ribosomal protein L34	11.05
<i>rpl35</i>	60S ribosomal protein L35	12.35
<i>RPL35</i>	60S ribosomal protein L35	-2.02
<i>rpl35a</i>	60S ribosomal protein L35a	11.09
<i>rpl36</i>	60S ribosomal protein L36	11.24
<i>rpl36a</i>	60S ribosomal protein L36a	7.12
<i>rpl37</i>	60S ribosomal protein L37	11.66
<i>Rpl37</i>	60S ribosomal protein L37	-9.00
<i>RPL37A</i>	60S ribosomal protein L37a	-8.70
<i>rpl37a</i>	60S ribosomal protein L37a	11.95
<i>RPL38</i>	60S ribosomal protein L38	2.80
<i>rpl39</i>	60S ribosomal protein L39	10.92
<i>RPL4</i>	60S ribosomal protein L4	2.93
<i>RPL4</i>	60S ribosomal protein L4	-7.65
<i>rpl4-a</i>	60S ribosomal protein L4-A	11.30
<i>RPL5</i>	60S ribosomal protein L5	3.51
<i>RPL5</i>	60S ribosomal protein L5	10.98
<i>RPL5</i>	60S ribosomal protein L5, mitochondrial	2.97
<i>RPL6</i>	60S ribosomal protein L6	2.75
<i>RPL6</i>	60S ribosomal protein L6	11.93
<i>RPL6C</i>	60S ribosomal protein L6-3	3.22
<i>RPL7</i>	60S ribosomal protein L7	11.53
<i>rpl7a</i>	60S ribosomal protein L7a	12.32
<i>RPL7A</i>	60S ribosomal protein L7a	-7.77
<i>RPL8</i>	60S ribosomal protein L8	3.10
<i>rpl8</i>	60S ribosomal protein L8	11.52
<i>RPL8</i>	60S ribosomal protein L8	-9.31
<i>rpl9</i>	60S ribosomal protein L9	11.54
<i>RPLP0</i>	60S acidic ribosomal protein P0	-7.39
<i>rplp0</i>	60S acidic ribosomal protein P0	11.88
<i>RPLP1</i>	60S acidic ribosomal protein P1	12.80
<i>RPLP1</i>	60S acidic ribosomal protein P1	3.12
<i>Rplp1</i>	60S acidic ribosomal protein P1	-9.36
<i>RPLP1</i>	60S acidic ribosomal protein P1	-9.72
<i>RPLP2</i>	60S acidic ribosomal protein P2	11.30
<i>RPP1A</i>	60S acidic ribosomal protein P1	2.65
<i>RPP1A</i>	60S acidic ribosomal protein P1	1.03
<i>Rps10</i>	40S ribosomal protein S10	-8.04
<i>RPS10</i>	40S ribosomal protein S10	-8.88
<i>rps10</i>	40S ribosomal protein S10	11.47
<i>RPS10A</i>	40S ribosomal protein S10-1	3.46
<i>rps11</i>	30S ribosomal protein S11, chloroplastic	-6.25
<i>RPS11</i>	40S ribosomal protein S11	11.66
<i>RPS12</i>	40S ribosomal protein S12	11.38
<i>RPS12</i>	40S ribosomal protein S12	4.54
<i>RPS12</i>	40S ribosomal protein S12	-8.36
<i>rps13</i>	40S ribosomal protein S13	11.69

<i>RPS14</i>	40S ribosomal protein S14	7.35
<i>RPS14A</i>	40S ribosomal protein S14-1	3.08
<i>RPS14B</i>	40S ribosomal protein S14-2	2.65
<i>RPS15</i>	40S ribosomal protein S15	10.89
<i>RPS15A</i>	40S ribosomal protein S15a	11.23
<i>RPS16</i>	40S ribosomal protein S16	-9.00
<i>rps16</i>	40S ribosomal protein S16	11.48
<i>RPS17</i>	40S ribosomal protein S17	9.82
<i>rps18</i>	40S ribosomal protein S18	12.15
<i>RPS18B</i>	40S ribosomal protein S18-B	3.02
<i>rps19</i>	40S ribosomal protein S19	12.92
<i>RPS2</i>	40S ribosomal protein S2	-9.07
<i>Rps2</i>	40S ribosomal protein S2	2.97
<i>rps2</i>	40S ribosomal protein S2	12.46
<i>RPS20</i>	40S ribosomal protein S20	12.88
<i>rps21</i>	40S ribosomal protein S21	9.86
<i>RPS21C</i>	40S ribosomal protein S21-2	1.07
<i>RPS23</i>	40S ribosomal protein S12	10.07
<i>rps23</i>	40S ribosomal protein S23	11.57
<i>RPS24</i>	40S ribosomal protein S24	-8.69
<i>rps24</i>	40S ribosomal protein S24	12.12
<i>rps25</i>	40S ribosomal protein S25	11.03
<i>RPS26</i>	40S ribosomal protein S26	11.48
<i>rps27</i>	40S ribosomal protein S27	11.24
<i>Rps27</i>	40S ribosomal protein S27	10.79
<i>rps27a</i>	Ubiquitin-40S ribosomal protein S27a	11.18
<i>RPS27L</i>	40S ribosomal protein S27-like	10.35
<i>rps28</i>	40S ribosomal protein S28	10.07
<i>rps3</i>	40S ribosomal protein S3	11.27
<i>RPS3A</i>	40S ribosomal protein S3a	-9.18
<i>rps3a</i>	40S ribosomal protein S3a	12.21
<i>RPS4X</i>	40S ribosomal protein S4, X isoform	-7.50
<i>rps4x</i>	40S ribosomal protein S4, X isoform	9.01
<i>RPS5</i>	40S ribosomal protein S5	11.04
<i>RPS6</i>	40S ribosomal protein S6	-9.33
<i>rps6</i>	40S ribosomal protein S6	12.56
<i>RPS6</i>	40S ribosomal protein S6	-3.48
<i>rps7</i>	40S ribosomal protein S7	11.33
<i>RPS7</i>	40S ribosomal protein S7	-9.51
<i>RPS7</i>	Ribosomal protein S7, mitochondrial	1.04
<i>rps8</i>	40S ribosomal protein S8	11.76
<i>RPS8</i>	40S ribosomal protein S8	-9.35
<i>RPS9</i>	40S ribosomal protein S9	11.58
<i>RPSA</i>	40S ribosomal protein SA	-8.98
<i>RPSA</i>	40S ribosomal protein SA	-9.22
<i>rpsa</i>	40S ribosomal protein SA	11.66
<i>rpsO</i>	30S ribosomal protein S15	-1.48
<i>Tpt1</i>	Translationally-controlled tumor protein	-10.13
<i>TPT1</i>	Translationally-controlled tumor protein	-9.91
<i>UBA52</i>	Ubiquitin-60S ribosomal protein L40	7.47
<i>ubi3</i>	Ubiquitin-40S ribosomal protein S27a	2.30

<i>YRPS3</i>	Ribosomal protein S3, mitochondrial	-1.67
Translation initiation factor		
<i>At1g54290</i>	Protein translation factor SUI1 homolog 2	3.17
<i>At1g77840</i>	Probable eukaryotic translation initiation factor 5-2	4.36
<i>At4g27130</i>	Protein translation factor SUI1 homolog 1	4.62
<i>EIF(ISO)4G1</i>	Eukaryotic translation initiation factor isoform 4G-1	2.95
<i>Eif1</i>	Eukaryotic translation initiation factor 1	-8.88
<i>EIF4B3</i>	Eukaryotic translation initiation factor 4B3	-1.26
<i>EIF5A</i>	Eukaryotic translation initiation factor 5A-1	10.64
<i>EIF5A</i>	Eukaryotic translation initiation factor 5A-1	-8.73
<i>EIF-5A1</i>	Eukaryotic translation initiation factor 5A	3.17
<i>ERF1-1</i>	Eukaryotic peptide chain release factor subunit 1-1	4.80
<i>TIF</i>	Protein translation factor SUI1 homolog	4.96
<i>TIF11</i>	Eukaryotic translation initiation factor 1A	2.38
<i>TIF3C1</i>	Eukaryotic translation initiation factor 3 subunit C	9.03
<i>TIF4A-1</i>	Eukaryotic initiation factor 4A-1	2.35
Elongation factor		
<i>At1g30230</i>	Elongation factor 1-delta	-1.65
<i>At1g30230</i>	Elongation factor 1-delta 1	2.43
<i>eef1a</i>	Elongation factor 1-alpha	13.65
<i>EEF1A1</i>	Elongation factor 1-alpha 1	-8.10
<i>EEF1B</i>	Elongation factor 1-beta	11.10
<i>EEF1G</i>	Elongation factor 1-gamma	-9.16
<i>eef1g</i>	Elongation factor 1-gamma	11.42
<i>Eef2</i>	Elongation factor 2	-8.97
<i>EEF2</i>	Elongation factor 2	11.72
<i>EEF2</i>	Elongation factor 2	11.65
<i>Ef1alpha100E</i>	Elongation factor 1-alpha	5.97
<i>LOS1</i>	Elongation factor 2	1.93
<i>TEF</i>	Elongation factor 1-alpha	2.28
<i>tef2</i>	Translation elongation factor 2	8.60
<i>others</i>		
<i>APUM11</i>	Pumilio homolog 11	2.56
<i>APUM12</i>	Pumilio homolog 12	4.96
<i>At3g62120</i>	Proline--tRNA ligase, cytoplasmic	2.30
<i>At5g08100</i>	Isoaspartyl peptidase/L-asparaginase 1	1.02
<i>At5g26710</i>	Glutamate--tRNA ligase, cytoplasmic	3.08
<i>CAF1-7</i>	Probable CCR4-associated factor 1 homolog 7	2.65
<i>CNR7</i>	Cell number regulator 7	-1.54
<i>FAU</i>	Ubiquitin-like protein FUBI	11.42
<i>fes1</i>	Hsp70 nucleotide exchange factor fes1	4.63
<i>LSG1-2</i>	GTPase LSG1-2	1.80
<i>N/A</i>	Protein phosphatase PP2A regulatory subunit A	3.30
<i>NARS</i>	Asparagine--tRNA ligase, cytoplasmic	10.33
<i>PAB7</i>	Polyadenylate-binding protein 7	2.84
<i>PEL1</i>	Protein PELOTA 1	-6.50
<i>ran</i>	GTP-binding nuclear protein Ran	9.81
<i>RNP1</i>	Heterogeneous nuclear ribonucleoprotein 1	1.89
<i>rsl24d1</i>	Probable ribosome biogenesis protein RLP24	9.09
<i>SYNC1</i>	Asparagine--tRNA ligase, cytoplasmic 1	3.18

Table S9. Secondary metabolism genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Hormone biosynthesis and metabolism		
<i>N/A</i>	Zeaxanthin epoxidase, chloroplastic	1.06
<i>ABA2</i>	Xanthoxin dehydrogenase	1.61
<i>ACO</i>	1-aminocyclopropane-1-carboxylate oxidase	-1.16
<i>ACO1</i>	1-aminocyclopropane-1-carboxylate oxidase	-4.59
<i>ACO3</i>	1-aminocyclopropane-1-carboxylate oxidase 3	-4.01
<i>ACS1</i>	1-aminocyclopropane-1-carboxylate synthase	-2.52
<i>ACS-1</i>	1-aminocyclopropane-1-carboxylate synthase	10.14
<i>ACS8</i>	1-aminocyclopropane-1-carboxylate synthase 8	1.70
<i>CKX1</i>	Cytokinin dehydrogenase 1	4.03
<i>CKX5</i>	Cytokinin dehydrogenase 5	3.19
<i>CKX6</i>	Cytokinin dehydrogenase 6	4.83
<i>CKX7</i>	Cytokinin dehydrogenase 7	-1.46
<i>CYP707A1</i>	Abscisic acid 8'-hydroxylase 1	-2.24
<i>CYP707A4</i>	Abscisic acid 8'-hydroxylase 4	1.16
<i>CYP707A6</i>	Abscisic acid 8'-hydroxylase 2	-1.04
<i>CYP735A2</i>	Cytokinin hydroxylase	-3.20
<i>GA1</i>	Ent-copalyl diphosphate synthase, chloroplastic	2.08
<i>GA20OX1</i>	Gibberellin 20 oxidase 1	6.34
<i>GA2OX1</i>	Gibberellin 2-beta-dioxygenase	1.34
<i>GA2OX2</i>	Gibberellin 2-beta-dioxygenase 2	5.62
<i>GA2OX6</i>	Gibberellin 2-beta-dioxygenase 6	2.72
<i>GULLO3</i>	L-gulonolactone oxidase 3	1.04
<i>GULLO6</i>	Probable L-gulonolactone oxidase 6	2.38
<i>HSD3B</i>	3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase	-8.95
<i>IPT5</i>	Adenylate isopentenyltransferase 5, chloroplastic	-11.35
<i>LE</i>	Gibberellin 3-beta-dioxygenase 1	-1.36
<i>LOG3</i>	Cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG3	2.44
<i>LOG7</i>	Cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG7	10.47
<i>LOG8</i>	Cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG8	-3.45
<i>NPF3.1</i>	Protein NRT1/ PTR FAMILY 3.1	-4.18
<i>WAT1</i>	Protein WALLS ARE THIN 1	1.77
<i>XERICO</i>	Probable E3 ubiquitin-protein ligase XERICO	1.83
<i>YUC10</i>	Probable indole-3-pyruvate monooxygenase YUCCA10	-5.41
<i>YUC4</i>	Probable indole-3-pyruvate monooxygenase YUCCA4	9.41
<i>YUC6</i>	Indole-3-pyruvate monooxygenase YUCCA6	10.20
Terpene biosynthesis and metabolism		
<i>CYC2</i>	Iridoid synthase	-2.09
<i>CYC2</i>	Iridoid synthase CYC2	-1.08
<i>CYP716A17</i>	Beta-amyrin 28-monooxygenase	2.04
<i>GGR</i>	Heterodimeric geranylgeranyl pyrophosphate synthase small subunit, chloroplastic	2.37
<i>LUS1</i>	Lupeol synthase	-4.48
<i>OSCBPW</i>	Lupeol synthase	-3.66
<i>VIT_19s0014g0493</i>	(-)-germacrene D synthase	3.66

Flavonoid biosynthesis and metabolism

<i>ANR</i>	Anthocyanidin reductase ((2S)-flavan-3-ol-forming)	-1.76
<i>At3g11180</i>	Probable 2-oxoglutarate-dependent dioxygenase At3g111800	-4.87
<i>BHLH</i>	Basic helix-loop-helix protein A	-1.32
<i>CHI</i>	Chalcone--flavonone isomerase	-1.35
<i>DTX35</i>	DETOXIFICATION 35	1.61
<i>DTX41</i>	Protein DETOXIFICATION 41	-1.97
<i>FHT</i>	Naringenin,2-oxoglutarate 3-dioxygenase	-1.95
<i>HIDM</i>	2-hydroxyisoflavanone dehydratase	-2.72

Jasmonic acid biosynthesis

<i>4CLL5</i>	4-coumarate--CoA ligase-like 5	4.42
<i>AOS1</i>	Allene oxide synthase 1, chloroplastic	-3.29
<i>GRXC9</i>	Glutaredoxin-C9	-2.72
<i>MES17</i>	Methylesterase 17	2.64
<i>OPR3</i>	12-oxophytodienoate reductase 3	-1.41

Alkaloid metabolism

<i>AAE</i>	Acetylajmalan esterase	-1.59
<i>ACT</i>	Vinorine synthase	-2.97
<i>CTS2</i>	Theobromine synthase 2	3.47
<i>TCS2</i>	Probable caffeine synthase 2	-1.78

Hydrogen peroxide catabolism

<i>PER10</i>	Peroxidase 10	1.34
<i>PER12</i>	Peroxidase 12	2.17
<i>PER17</i>	Peroxidase 17	1.88
<i>PER43</i>	Peroxidase 43	-1.74
<i>PER47</i>	Peroxidase 47	3.22
<i>PER54</i>	Peroxidase 54	4.55
<i>PER64</i>	Peroxidase 64	1.07
<i>PER69</i>	Peroxidase 69	-4.80
<i>PNC1</i>	Cationic peroxidase 1	-1.42
<i>PNC2</i>	Cationic peroxidase 2	-1.30
<i>PRXC2</i>	Peroxidase C2	6.86

Others

<i>10HGO</i>	8-hydroxygeraniol dehydrogenase	1.46
<i>4CL1</i>	4-coumarate--CoA ligase 1	-1.04
<i>4CLL6</i>	4-coumarate--CoA ligase-like 6	5.14
<i>ADC2</i>	Arginine decarboxylase 2	9.02
<i>adhC2</i>	NADP-dependent alcohol dehydrogenase C 2	2.02
<i>AHA10</i>	ATPase 10, plasma membrane-type	-1.83
<i>AKR1C1</i>	Prostaglandin F synthase 1	-10.20
<i>ALDH</i>	Aldehyde dehydrogenase	-3.05
<i>ALDH2C4</i>	Aldehyde dehydrogenase family 2 member C4	-5.19
<i>ALN</i>	Allantoinase	1.33
<i>ANS</i>	Leucoanthocyanidin dioxygenase	-1.14
<i>AOX4</i>	Ubiquinol oxidase 4, chloroplastic/chromoplastic	1.32
<i>At1g10310</i>	NADPH-dependent pterin aldehyde reductase	1.50
<i>At1g73050</i>	(R)-mandelonitrile lyase-like	1.11
<i>At2g04865</i>	MAIN-LIKE 2	-9.21
<i>At5g24760</i>	Alcohol dehydrogenase-like 6	-1.29
<i>At5g38780</i>	Probable S-adenosylmethionine-dependent	-4.62

	methyltransferase At5g38780	
<i>At5g60760</i>	P-loop NTPase domain-containing protein LPA1 homolog 1	-3.68
<i>ATR2</i>	NADPH--cytochrome P450 reductase 2	2.35
<i>BCA1</i>	Beta carbonic anhydrase 1, chloroplastic	5.05
<i>BCA2</i>	Beta carbonic anhydrase 2, chloroplastic	9.57
<i>BCA2</i>	Carbonic anhydrase, chloroplastic	-1.27
<i>BEAT</i>	Acetyl-CoA-benzylalcohol acetyltransferase	-10.99
<i>Bp10</i>	L-ascorbate oxidase homolog	-2.72
<i>CAD9</i>	Probable cinnamyl alcohol dehydrogenase 9	-3.03
<i>CAT1</i>	Catalase isozyme 1	-3.62
<i>CER3</i>	Very-long-chain aldehyde decarbonylase CER3	1.72
<i>CRY1</i>	Cryptochrome-1	1.95
<i>CSE</i>	Caffeoylshikimate esterase	-3.56
<i>CXE15</i>	Probable carboxylesterase 15	1.80
<i>CYN</i>	Cyanate hydratase	1.26
<i>CYN</i>	Cyanate hydratase	3.23
<i>CYP716A15</i>	Beta-amyrin 28-monooxygenase	-3.59
<i>CYP71D8</i>	Germacrene A hydroxylase	-1.31
<i>CYP79A1</i>	Tyrosine N-monooxygenase	-3.98
<i>CYP79D4</i>	Isoleucine N-monooxygenase 2	-4.06
<i>CYP96A15</i>	Alkane hydroxylase MAH1	-3.82
<i>Dctpp1</i>	dCTP pyrophosphatase 1	-1.63
<i>DFR</i>	Dihydroflavonol 4-reductase	-1.58
<i>DFRA</i>	Dihydroflavonol 4-reductase	-2.18
<i>DGAT1</i>	Diacylglycerol O-acyltransferase 1	-1.26
<i>DGAT3</i>	Diacylglycerol O-acyltransferase 3	3.99
<i>DJ1B</i>	Protein DJ-1 homolog B	4.18
<i>DLO2</i>	Protein DMR6-LIKE OXYGENASE 2	-1.43
<i>DSEL</i>	Phospholipase A1-IIgamma	2.75
<i>ERF9</i>	Ethylene-responsive transcription factor 9	2.30
<i>F6'H1</i>	Feruloyl CoA ortho-hydroxylase 1	-4.24
<i>FDH1</i>	Formate dehydrogenase, chloroplastic/mitochondrial	8.86
<i>FHY</i>	Bifunctional riboflavin kinase/FMN phosphatase	1.05
<i>FLS</i>	Flavonol synthase/flavanone 3-hydroxylase	8.60
<i>FMOGS-OX3</i>	Flavin-containing monooxygenase FMO GS-OX3	-3.06
<i>GDPD1</i>	Glycerophosphodiester phosphodiesterase GDPD1, chloroplastic	-2.84
<i>GGP1</i>	Gamma-glutamyl peptidase 1	4.15
<i>GGPS</i>	Geranylgeranyl pyrophosphate synthase, chloroplastic	1.54
<i>GPAT1</i>	Glycerol-3-phosphate acyltransferase 1	5.99
<i>GPX3</i>	Glutathione peroxidase 3	-11.36
<i>GRF1</i>	Growth-regulating factor 1	3.43
<i>GT5</i>	Anthocyanidin 3-O-glucosyltransferase 5	-6.85
<i>HIPL1</i>	HIPL1 protein	1.69
<i>HMG1</i>	3-hydroxy-3-methylglutaryl-coenzyme A reductase 1	2.99
<i>HMG5</i>	Hydroxymethylglutaryl-CoA synthase	-1.69
<i>HRPN</i>	Peroxidase N	-1.73
<i>ICDH-1</i>	Isocitrate dehydrogenase [NADP]	-1.33
<i>IGMT4</i>	Indole glucosinolate O-methyltransferase 4	2.61
<i>IMPDH</i>	Inosine-5'-monophosphate dehydrogenase 1	4.07
<i>Inmt</i>	Indolethylamine N-methyltransferase	-8.65

<i>IP5P4</i>	Type I inositol polyphosphate 5-phosphatase 4	1.26
<i>IPCS2</i>	Phosphatidylinositol:ceramide inositolphosphotransferase 2	-1.41
<i>ISPH</i>	4-hydroxy-3-methylbut-2-enyl diphosphate reductase, chloroplastic	3.24
<i>KES1</i>	Protein KES1	3.41
<i>LOX3.1</i>	Linoleate 13S-lipoxygenase 3-1, chloroplastic	-3.84
<i>malA</i>	NADP-dependent malic enzyme	2.10
<i>MED33A</i>	Mediator of RNA polymerase II transcription subunit 33A	-1.67
<i>MEE23</i>	Berberine bridge enzyme-like 15	2.13
<i>NADK3</i>	NADH kinase	3.67
<i>NDPK2</i>	Nucleoside diphosphate kinase 2, chloroplastic	-1.25
<i>NIA1</i>	Nitrate reductase [NADH], clone PBNBR1405	3.85
<i>NIR1</i>	Ferredoxin--nitrite reductase, chloroplastic	4.42
<i>NIT4</i>	Bifunctional nitrilase/nitrile hydratase NIT4	8.31
<i>NLP2</i>	Deaminated glutathione amidase, chloroplastic/cytosolic	-1.13
<i>NME1-2</i>	Nucleoside diphosphate kinase A2	11.55
<i>NMRK2</i>	Nicotinamide riboside kinase 2	11.54
<i>NSP5</i>	Nitrile-specifier protein 5	4.91
<i>NTR2</i>	Thioredoxin reductase 2	2.89
<i>OMT1</i>	Flavone 3'-O-methyltransferase 1	-1.73
<i>Os01g0789100</i>	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase 1, chloroplastic	1.21
<i>Os04g0670700</i>	Probable phytol kinase, chloroplastic	1.01
<i>OVA9</i>	Glutamine--tRNA ligase, cytoplasmic	3.90
<i>PAO3</i>	Polyamine oxidase 3	-1.68
<i>PCBER</i>	Phenylcoumaran benzylic ether reductase POP1	1.38
<i>PDC4</i>	Pyruvate decarboxylase 4	3.41
<i>PSY</i>	Phytoene synthase, chloroplastic	2.50
<i>ROMT</i>	Trans-resveratrol di-O-methyltransferase	-4.58
<i>RUB1</i>	Ubiquitin-NEDD8-like protein RUB1	3.87
<i>SCPL18</i>	Serine carboxypeptidase-like 18	-1.12
<i>SDC</i>	Serine decarboxylase	1.04
<i>Sftpb</i>	Pulmonary surfactant-associated protein B	-8.72
<i>SMT2</i>	24-methylenesterol C-methyltransferase 2	1.17
<i>SNL6</i>	Cinnamoyl-CoA reductase-like SNL6	-1.96
<i>STPS</i>	Sesquiterpene synthase	9.19
<i>SUD1</i>	Probable E3 ubiquitin ligase SUD1	5.09
<i>TBL2</i>	Protein trichome birefringence-like 2	1.61
<i>TBL38</i>	Protein trichome birefringence-like 38	-2.66
<i>TBL8</i>	Protein trichome birefringence-like 8	1.60
<i>THI1</i>	Thiamine thiazole synthase, chloroplastic	3.70
<i>THIC</i>	Phosphomethylpyrimidine synthase, chloroplastic	4.25
<i>TP53I3</i>	Quinone oxidoreductase PIG3	2.69
<i>TPI1</i>	Triosephosphate isomerase	-6.83
<i>TSPO</i>	Translocator protein homolog	-1.18

Table S10. Photosynthesis and energy genes differentially expressed in CR and CS.

Gene name	Protein name	log ₂ Ratio (CR/CS)
Photosynthesis and energy		
<i>AOX1A</i>	Ubiquinol oxidase 1a, mitochondrial	3.00
<i>BCA4</i>	Beta carbonic anhydrase 4	3.31
<i>CHLH</i>	Magnesium-chelatase subunit ChlH, chloroplastic	2.16
<i>CHLI</i>	Magnesium-chelatase subunit ChlI, chloroplastic	1.33
<i>CHLM</i>	Magnesium protoporphyrin IX methyltransferase, chloroplastic	2.00
<i>CHLP</i>	Geranylgeranyl diphosphate reductase, chloroplastic	4.38
<i>CHLP</i>	Geranylgeranyl diphosphate reductase, chloroplastic	2.14
<i>CPX1</i>	Coproporphyrinogen-III oxidase 1, chloroplastic	4.09
<i>CRD1</i>	Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase, chloroplastic	1.34
<i>CRD1</i>	Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase, chloroplastic	4.38
<i>DCUP</i>	Uroporphyrinogen decarboxylase, chloroplastic	-1.86
<i>DHNAT1</i>	1,4-dihydroxy-2-naphthoyl-CoA thioesterase 1	-1.12
<i>DVR</i>	Divinyl chlorophyllide a 8-vinyl-reductase, chloroplastic	2.64
<i>EFL4</i>	Protein ELF4-LIKE 4	1.88
<i>FAR1</i>	Protein FAR-RED IMPAIRED RESPONSE 1	-2.31
<i>FD2</i>	Ferredoxin-2, chloroplastic	3.33
<i>FTSH1</i>	ATP-dependent zinc metalloprotease FTSH 1, chloroplastic	1.29
<i>FTSH1</i>	ATP-dependent zinc metalloprotease FTSH 1, chloroplastic	1.22
<i>GLO1</i>	(S)-2-hydroxy-acid oxidase GLO1	4.94
<i>GLYK</i>	D-glycerate 3-kinase, chloroplastic	3.13
<i>HY5</i>	Transcription factor HY5	-1.67
<i>KAI2</i>	Probable esterase KAI2	3.39
<i>MTACP2</i>	Acyl carrier protein 3, mitochondrial	-1.85
<i>mt-atp6</i>	ATP synthase subunit a	12.81
<i>MT-ND1</i>	NADH-ubiquinone oxidoreductase chain 1	-5.02
<i>MT-ND1</i>	NADH-ubiquinone oxidoreductase chain 1	12.05
<i>MT-ND2</i>	NADH-ubiquinone oxidoreductase chain 2	-8.73
<i>MT-ND3</i>	NADH-ubiquinone oxidoreductase chain 3	10.74
<i>MT-ND4</i>	NADH-ubiquinone oxidoreductase chain 4	11.14
<i>MT-ND4</i>	NADH-ubiquinone oxidoreductase chain 4	-10.16
<i>MT-ND5</i>	NADH-ubiquinone oxidoreductase chain 5	10.28
<i>MT-ND6</i>	NADH-ubiquinone oxidoreductase chain 6	-9.67
<i>ND2</i>	NADH-ubiquinone oxidoreductase chain 2	-1.62
<i>PAT1</i>	Scarecrow-like transcription factor PAT1	1.12
<i>PDR2</i>	Pleiotropic drug resistance protein 2	-1.35
<i>PFP-ALPHA2</i>	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha 2	2.40
<i>PORA</i>	Protochlorophyllide reductase, chloroplastic	1.58
<i>PSBO1</i>	Oxygen-evolving enhancer protein 1-1, chloroplastic	8.39
<i>PSBP1</i>	Oxygen-evolving enhancer protein 2-1, chloroplastic	4.92
<i>RBCS-1A</i>	Ribulose biphosphate carboxylase small chain 1A, chloroplastic	5.37
<i>RBCS-2</i>	Ribulose biphosphate carboxylase small chain 2, chloroplastic	10.30
<i>RBCS-3B</i>	Ribulose biphosphate carboxylase small chain 3B, chloroplastic	9.90
<i>SPA3</i>	Protein SPA1-RELATED 3	1.04
<i>UVR8</i>	Ultraviolet-B receptor UVR8	1.17

<i>yhcF</i>	Ribosome-binding ATPase YchF	1.00
Photosystem I and II		
<i>LHCA2</i>	Photosystem I chlorophyll a/b-binding protein 2, chloroplastic	9.33
<i>LHCA3</i>	Photosystem I chlorophyll a/b-binding protein 3-1, chloroplastic	10.01
<i>psaD1</i>	Photosystem I reaction center subunit II-1, chloroplastic	9.74
<i>PSAE1</i>	Photosystem I reaction center subunit IV A, chloroplastic	5.56
<i>PSAF</i>	Photosystem I reaction center subunit III, chloroplastic	4.88
<i>PSAG</i>	Photosystem I reaction center subunit V, chloroplastic	10.16
<i>PSAK</i>	Photosystem I reaction center subunit psaK, chloroplastic	5.53
<i>PSAL</i>	Photosystem I reaction center subunit XI, chloroplastic	4.73
<i>PSAN</i>	Photosystem I reaction center subunit N, chloroplastic	4.46
<i>PSAO</i>	Photosystem I subunit O	9.62
<i>PSBR</i>	Photosystem II 10 kDa polypeptide, chloroplastic	4.13
<i>PSBS</i>	Photosystem II 22 kDa protein, chloroplastic	10.22
<i>PSBT</i>	Photosystem II 5 kDa protein, chloroplastic	10.21
<i>PSBW</i>	Photosystem II reaction center W protein, chloroplastic	4.21
<i>PSBY</i>	Photosystem II core complex proteins psbY, chloroplastic	10.20
Chlorophyll binding protein		
<i>CAB1</i>	Chlorophyll a-b binding protein 1, chloroplastic	5.69
<i>cabII-1</i>	Chlorophyll a-b binding protein of LHCII type I, chloroplastic	11.49
<i>CAP10B</i>	Chlorophyll a-b binding protein CP24 10B, chloroplastic	9.41
<i>LHCA1</i>	Chlorophyll a-b binding protein 6, chloroplastic	5.32
<i>LHCA4</i>	Chlorophyll a-b binding protein 4, chloroplastic	5.48
<i>LHCB1.3</i>	Chlorophyll a-b binding protein 1, chloroplastic	6.60
<i>LHCB2.1</i>	Chlorophyll a-b binding protein 2.1, chloroplastic	11.23
<i>LHCB2.1</i>	Chlorophyll a-b binding protein, chloroplastic	8.56
<i>LHCB2.4</i>	Chlorophyll a-b binding protein 2.4, chloroplastic	7.55
<i>LHCB3</i>	Chlorophyll a-b binding protein 3, chloroplastic	10.09
<i>LHCB4.2</i>	Chlorophyll a-b binding protein CP29.2, chloroplastic	9.76
<i>LHCB5</i>	Chlorophyll a-b binding protein CP26, chloroplastic	5.21
<i>OsI_012078</i>	Chlorophyll a-b binding protein, chloroplastic	7.03
Cytochrome		
<i>CB5-A</i>	Cytochrome b5 isoform A	1.25
<i>CCMFC</i>	Cytochrome c biogenesis CcmF C-terminal-like mitochondrial protein	-1.75
<i>CCMH</i>	Cytochrome c-type biogenesis CcmH-like mitochondrial protein	-1.08
<i>COX1</i>	Cytochrome c oxidase subunit 1	-2.47
<i>COX15</i>	Cytochrome c oxidase assembly protein COX15	1.12
<i>CYB5</i>	Cytochrome b5	3.42
<i>Cyp2f2</i>	Cytochrome P450 2F2	-7.82
<i>CYP704C1</i>	Cytochrome P450 704C1	-1.05
<i>CYP705A12</i>	Cytochrome P450 705A12	1.14
<i>CYP714C2</i>	Cytochrome P450 714C2	5.94
<i>CYP71A9</i>	Cytochrome P450 71A9	-3.44
<i>CYP71D10</i>	Cytochrome P450 71D10	-2.75
<i>CYP71D9</i>	Cytochrome P450 71D9	-3.70
<i>CYP734A1</i>	Cytochrome P450 734A1	2.61
<i>CYP750A1</i>	Cytochrome P450 CYP736A12	-3.06
<i>CYP77A2</i>	Cytochrome P450 77A2	1.90
<i>CYP77A3</i>	Cytochrome P450 77A3	11.26
<i>CYP78A7</i>	Cytochrome P450 78A7	4.71

<i>CYP78A9</i>	Cytochrome P450 78A9	-4.81
<i>CYP90A1</i>	Cytochrome P450 90A1	1.20
<i>CYP90B1</i>	Cytochrome P450 90B1	3.64
<i>CYP93A3</i>	Cytochrome P450 93A3	2.77
<i>CYP94B1</i>	Cytochrome P450 94B1	-6.81
<i>CYP98A2</i>	Cytochrome P450 98A2	-1.71
<i>Mtco1</i>	Cytochrome c oxidase subunit 1	-12.59
<i>mt-co1</i>	Cytochrome c oxidase subunit 1	13.37
<i>MT-CO1</i>	Cytochrome c oxidase subunit 1	-13.24
<i>mt-co2</i>	Cytochrome c oxidase subunit 2	13.36
<i>MT-CO2</i>	Cytochrome c oxidase subunit 2	-7.01
<i>MT-CO2</i>	Cytochrome c oxidase subunit 2	-11.88
<i>mt-co3</i>	Cytochrome c oxidase subunit 3	13.44
<i>mt-Co3</i>	Cytochrome c oxidase subunit 3	-12.45
<i>MT-CO3</i>	Cytochrome c oxidase subunit 3	-11.80
<i>mt-cyb</i>	Cytochrome b	12.48
<i>Mt-Cyb</i>	Cytochrome b	-11.28
<i>petC</i>	Cytochrome b6-f complex iron-sulfur subunit, chloroplastic	9.01
