

Table S5. List of drought-responsive proteins in Cam/B1/CI leaf extracts.

Spot no.	Protein name	Organism	ANOVA	Cam control	Cam stress	Stress/Control	Accumulation level	Method of identification	Score	% coverage	pI (theoretical)	Mw (theoretical)	Mw (experimental)	pI (experimental)	Accession number	Position on the gel
1	2-Cys peroxidoxin BAS1, chloroplastic	<i>Hordeum vulgare</i>	0.00668025	0.0121968	0.0381006	3.123819362	INCREASED	PMF	82	40	5.4	23398	11494	6.44	BAS1_HORVU	A8
2	RNA recognition motif	<i>Hordeum vulgare</i>	1.63E-04	0.1423030	0.0387168	0.272072971	decreased	PMF	85	36	4.77	30719	32125	4.28	gi326516784	
3	Glutathione S-transferase	<i>Hordeum vulgare</i>	0.00358229	0.0255268	0.0611039	2.393715624	INCREASED	PMF	112	34	8.91	33484	34009	5.61	gi326507956	A7
4	Ubiquitin carboxyl-terminal hydrolase 19	<i>Arabidopsis thaliana</i>	0.00893555	0.0208164	0.0645235	3.099647393	INCREASED	MS/MS	28	1	4.8	77097	34662	5.16	UBP19_ARATH	A9
5	Oxygen-evolving enhancer protein 1, chloroplastic	<i>Solanum tuberosum</i>	0.0476194	0.519591	0.110131	0.211957097	decreased	MS/MS	312	13	5.84	35595	37353	5.28	PSBO_SOLTU	
6	Ferredoxin-NADP+ oxidoreductase	<i>Hordeum vulgare</i>	0.00998117	0.168052	0.0979795	0.583030848	decreased	PMF	101	39	8.29	39971	40252	6.37	gi326492141	A10
7	Ferredoxin-NADP+ oxidoreductase	<i>Triticum aestivum</i>	0.0021909	0.20178	0.248442	1.231251858	INCREASED	PMF	123	48	6.92	40491	40252	5.65	gi20302473	
8	Unidentified		0.0307113	0.013688	0.0364749	2.664735535	INCREASED						41337	6.17		
9	Unidentified		0.00162949	0.0711978	0.183571	2.578324049	INCREASED						40869	5.16		A14
10	Unidentified		0.216608	0.12827	0.165565	1.290753879	INCREASED						43222	6.72		
11	Unidentified		2.35E-04	0.055791	0.10314	1.848685272	INCREASED						44377	6.04		
12	Ribulose biphosphate carboxylase/oxygenase activase B, chloroplastic	<i>Triticum aestivum</i>	5.64E-04	0.011835	0.185658	15.68719899	INCREASED	PMF	145	41	6.92	48012	47387	5.58	gi7960277	A3
15	Phenylalanine ammonia-lyase	<i>Bromheadia finlaysoniania</i>	7.68E-05	0.0508611	0.0225233	0.44283942	decreased	MS/MS	39	2	7.1	76605	65229	5.05	PALY_BROFI	
16	Glutamate dehydrogenase	<i>Hordeum vulgare</i>	0.00599432	0.0273513	0.106122	3.87996183	INCREASED	PMF	86	27	5.33	54461	66998	5.6	gi326519016	
17	Enolase	<i>Hordeum vulgare</i>	6.68E-04	0.220053	0.279485	1.27008039	INCREASED	PMF	132	39	5.39	48601	69269	5.6	gi326490934	A4
18	Glutathione reductase, chloroplastic	<i>Hordeum vulgare</i>	0.0054361	0.0236746	0.0323491	1.366405346	INCREASED	PMF	87	28	7.64	59615	72942	6.04	gi157362217	
20	ATP synthase subunit alpha, chloroplastic	<i>Hordeum vulgare</i>	0.0179638	0.0308022	0.048189	1.564466174	INCREASED	PMF	76	19	6.32	55317	76683	5.93	ATPA_HORVU	
21	Ferredoxin-nitrite reductase, chloroplastic	<i>Hordeum vulgare</i>	3.33E-04	0.0832444	0.0336241	0.403920264	decreased	PMF	122	20	6.33	66660	78493	6.3	gi326505210	A12
23	Heat shock protein 70 kDa, mitochondrial	<i>Phaseolus vulgaris</i>	0.00928046	0.0435198	0.0574036	1.319022606	INCREASED	MS/MS	121	3	5.95	72721	82794	5.47	HSP7M_PHAVU	A5
24	Heat shock protein 70 kDa, chloroplastic	<i>Hordeum vulgare</i>	9.86E-04	0.157451	0.0856052	0.543694229	decreased	PMF	120	21	5.04	73955	85601	4.77	gi326492960	A6
25	Ricin-type beta-trefoil lectin domain-like	<i>Hordeum vulgare</i>	0.0101948	0.0429553	0.0786682	1.831396824	INCREASED	PMF	122	39	5.71	35765	43542	6.15	gi326517467	
26	Fructose-1,6-bisphosphate aldolase	<i>Hordeum vulgare</i>	5.39E-04		0.0556374		INCREASED	PMF	114	31	6.08	39064	48286	6.81	gi226316443	A1
27	Unidentified		0.00176135	0.00614121	0.0212415	3.458846058	INCREASED						74416	6.17		
28	Heat shock protein 70 kDa, chloroplastic	<i>Brachypodium distachyon</i>	0.0037359	0.16762	0.12759	0.761186016	decreased	PMF	107	25	5.04	73203	84890	4.7	gi357134135	
29	Heat shock protein 70 kDa, chloroplastic	<i>Spinacia oleracea</i>	0.0259503	0.134993	0.0661696	0.490170601	decreased	MS/MS	108	4	4.87	64918	85458	4.73	HSP7S_SPIOL	
30	Unidentified		9.70E-04	0.04727	0.117498	2.48567802	INCREASED						30460	5.15		
33	Unidentified		0.00731553		0.0421895		INCREASED						31162	6.76		A13
34	Ascorbate peroxidase	<i>Hordeum vulgare</i>	1.68E-04		0.147918		INCREASED	PMF	117	49	5.10	27964	32907	5.16	gi15808779	
36	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic	<i>Zea mays</i>	1.53E-04		0.0194159		INCREASED	MS/MS	40	2	7.00	43182	44377	6.35	G3PA_MAIZE	
37	Unidentified		6.55E-04		0.0419277		INCREASED						44716	5.91		
38	L-idonate 5-dehydrogenase	<i>Hordeum vulgare</i>	5.55E-09		0.040462		INCREASED	PMF	199	58	6.27	39564	54434	6.79	gi326515958	
39	Glutamine synthetase leaf isozyme, chloroplastic	<i>Hordeum vulgare</i>	1.57E-04	0.936783	2.30833	2.464103213	INCREASED	PMF	119	40	5.75	46902	53295	5.1	gi755762	A11
40	Ribulose biphosphate carboxylase/oxygenase activase A, chloroplastic	<i>Hordeum vulgare</i>	4.91E-04		0.134756		INCREASED	PMF	194	39	8.04	51383	57456	5.14	RCAA_HORVU	
42	Glutamine synthetase leaf isozyme, chloroplastic	<i>Hordeum vulgare</i>	0.00759593	0.0872495		0	decreased	MS/MS	243	7	5.11	47406	31360	5.01	GLNA2_HORVU	
44	Clp protease ATP binding subunit	<i>Hordeum vulgare</i>	2.82E-02	0.0557778	0.0767487	1.375972161	INCREASED	PMF	127	21	6.65	102090	93196	5.77	gi326514880	
46	Ascorbate peroxidase	<i>Hordeum vulgare</i>	3.57E-02	0.0133261	0.0381987	2.866457553	INCREASED	PMF	80	34	5.85	27532	35670	5.21	gi3688398	
47	Betaine aldehyde dehydrogenase	<i>Hordeum vulgare</i>	1.21E-03	0.0234434	0.059385	2.533122329	INCREASED	PMF	85	19	5.47	55276	68540	5.13	gi15147871	
48	Ribulose biphosphate carboxylase/oxygenase large subunit-binding protein subunit	<i>Secale cereale</i>	5.62E-03	0.440628	0.319764	0.725700591	decreased	MS/MS	376	11	4.7	53721	68900	5.65	RUBB_SECCE	A2
49	Clp protease ATP binding subunit	<i>Hordeum vulgare</i>	1.54E-02	0.0266365	0.0370663	1.391560453	INCREASED	PMF	127	21	6.65	102090	102889	6.44	gi326514880	
50	Heat shock protein 70 kDa	<i>Hordeum vulgare</i>	3.78E-03	0.0070332	0.0405656	5.767730194	INCREASED	PMF	80	19	5.11	73301	79546	5.14	gi326495158	A15