

Supporting Information

Integration of Transcriptomics and Proteomics Data for Understanding the Mechanisms of Positive Effects of Carbon-Based Nanomaterials on Plant Tolerance to Salt Stress

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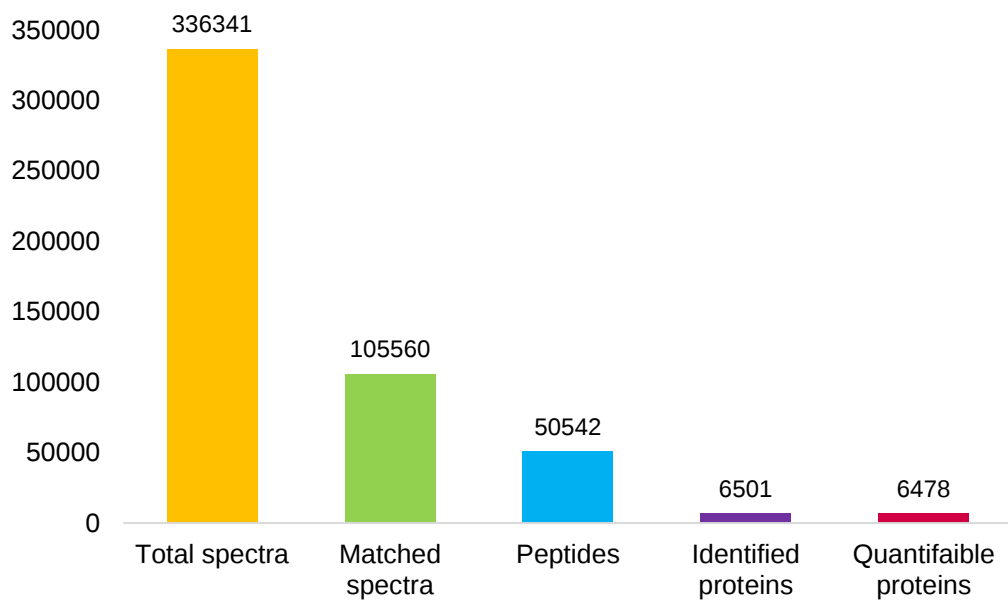
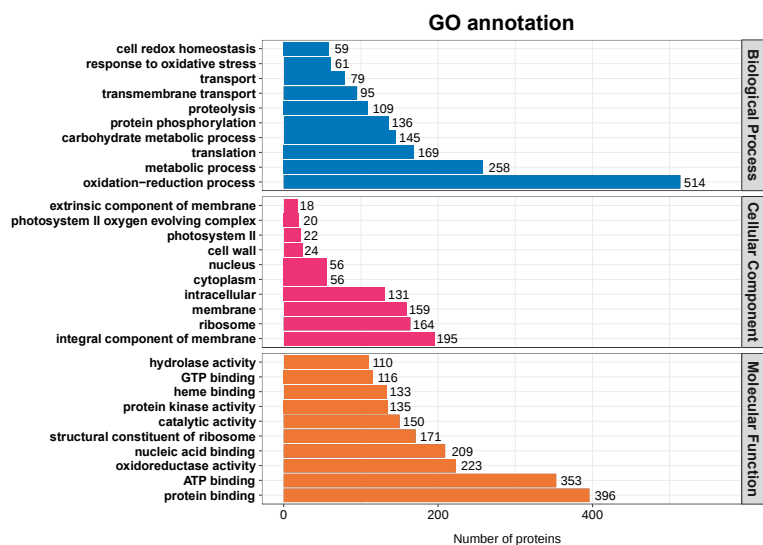
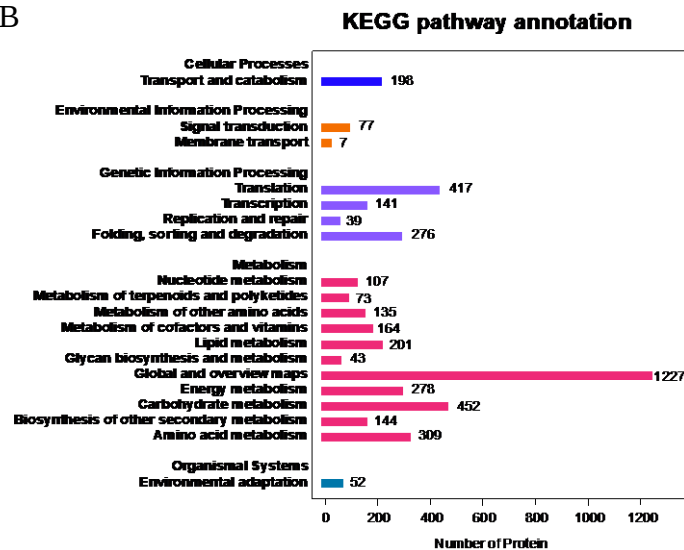


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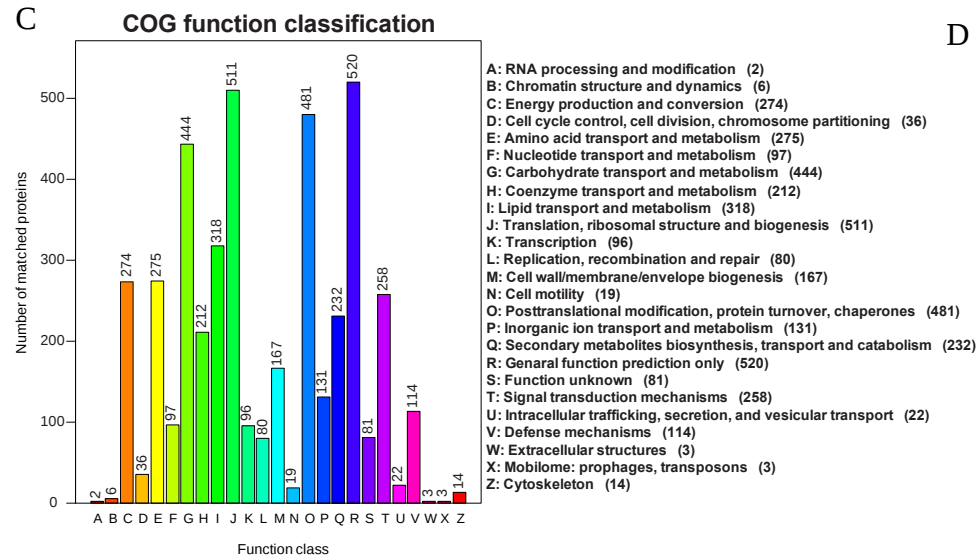
A



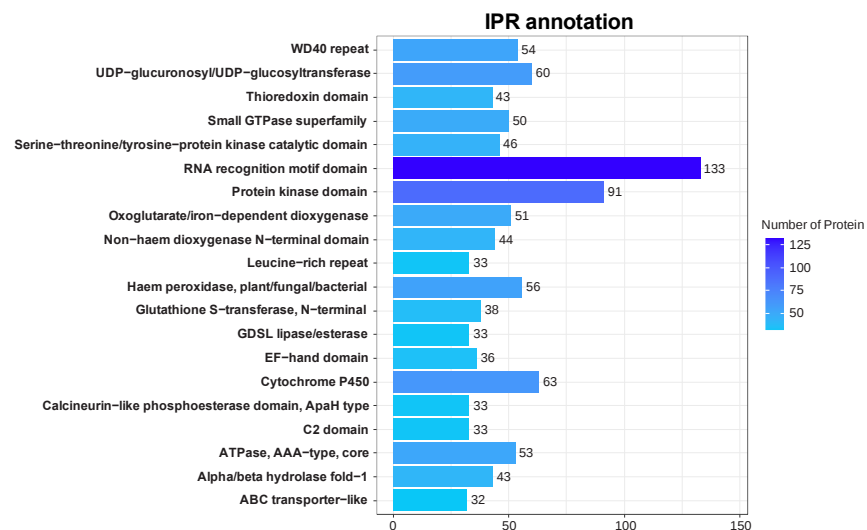
B



C



D



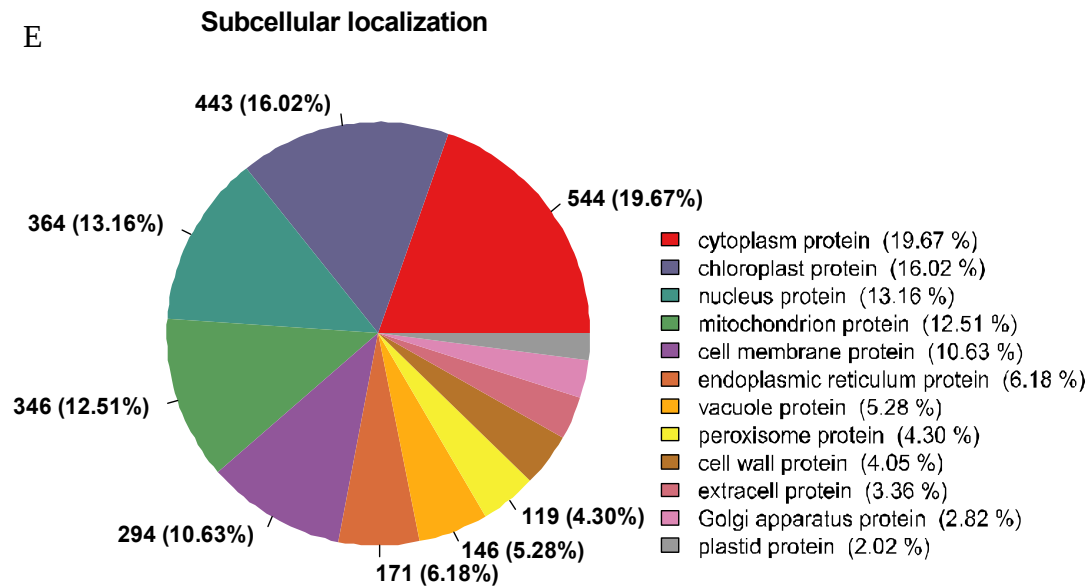


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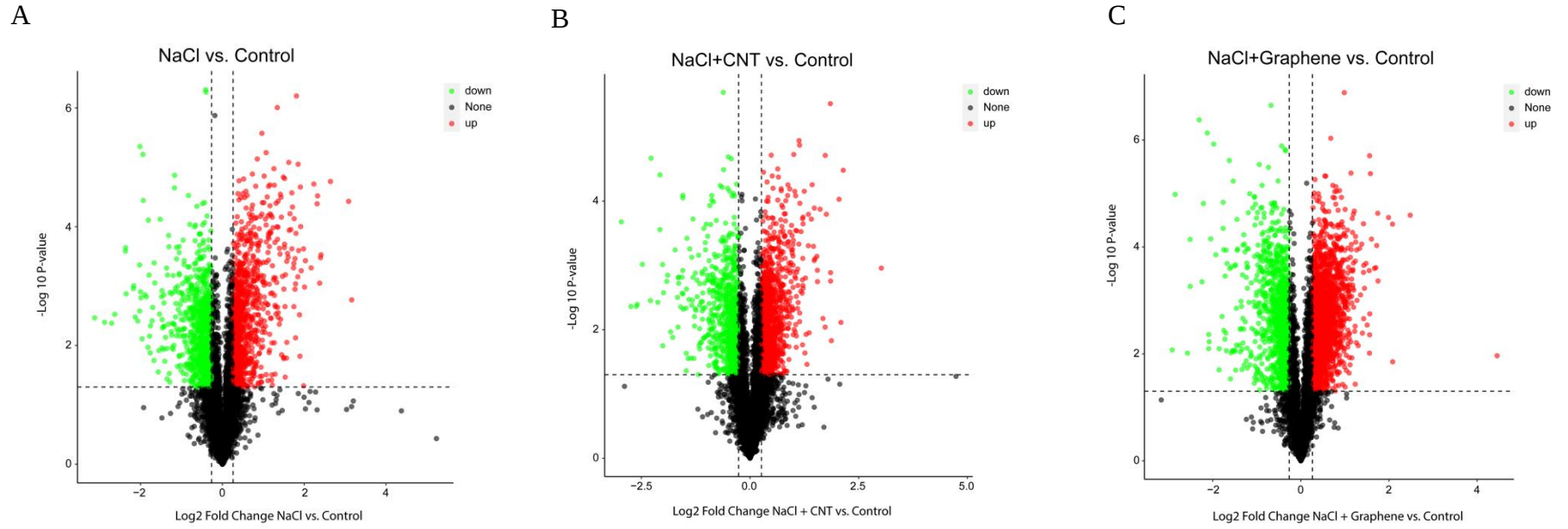


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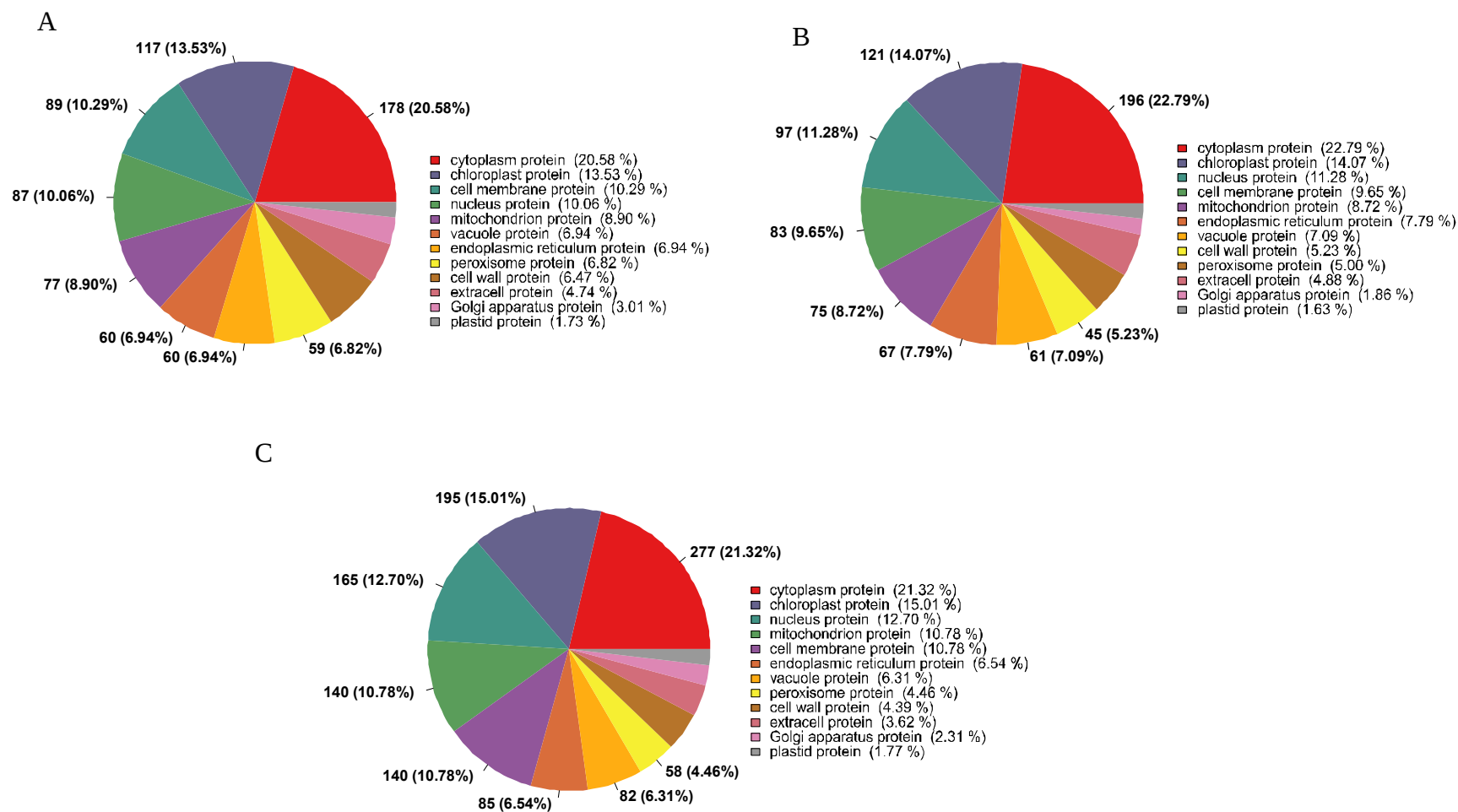


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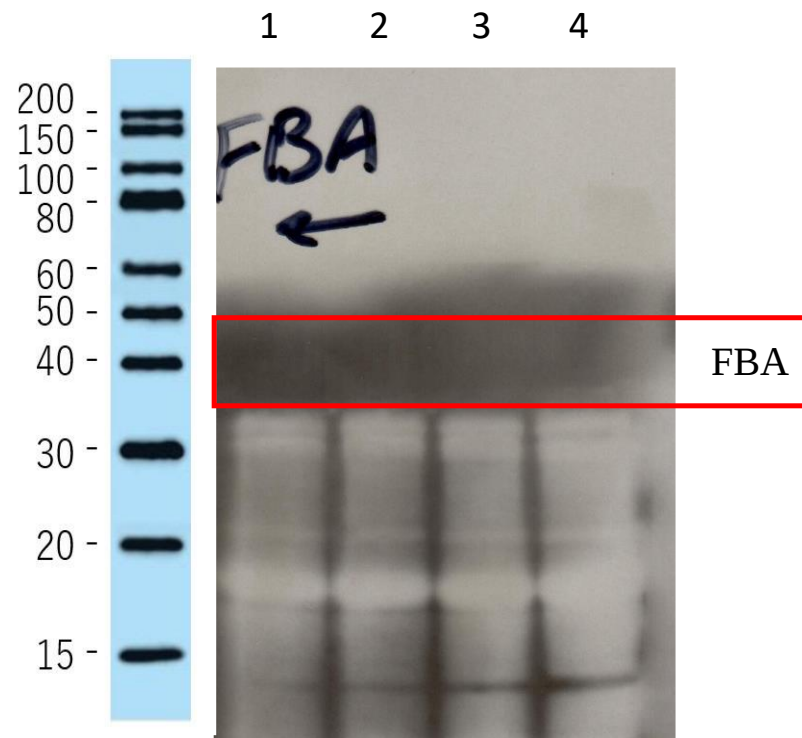


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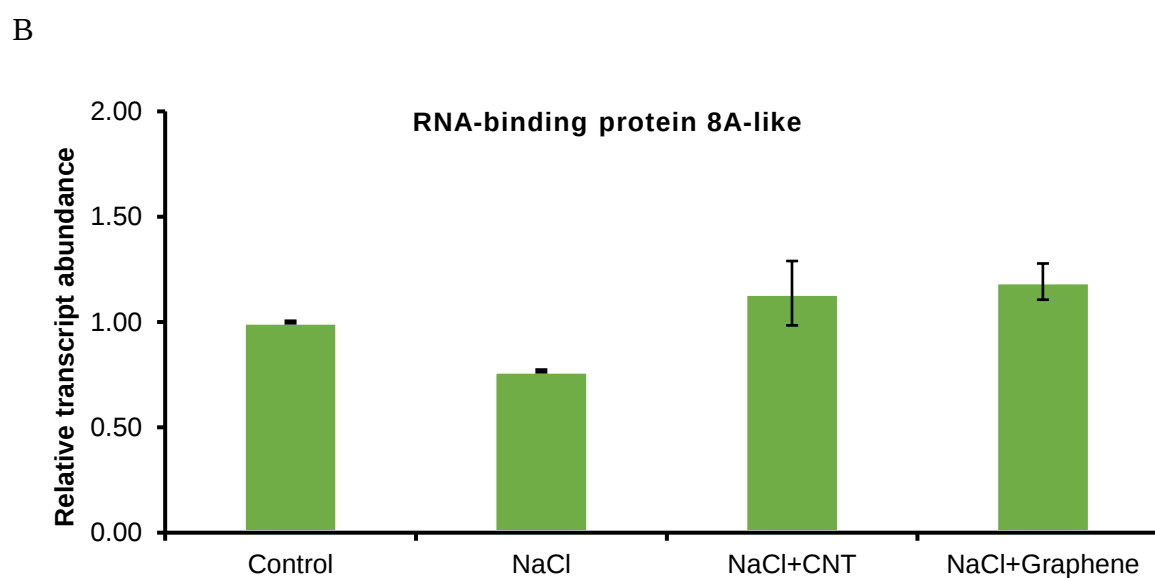
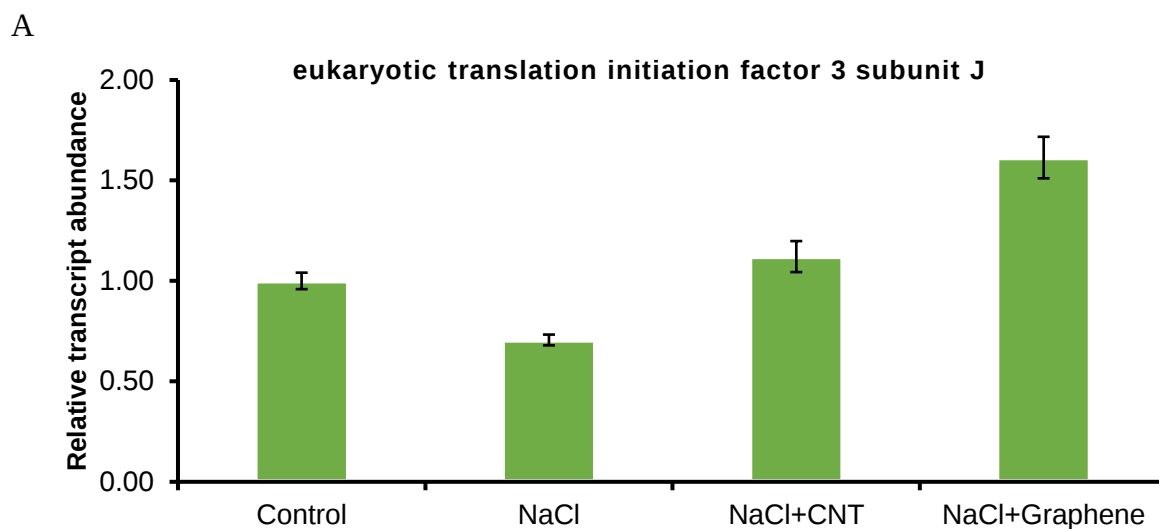


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A



B



C

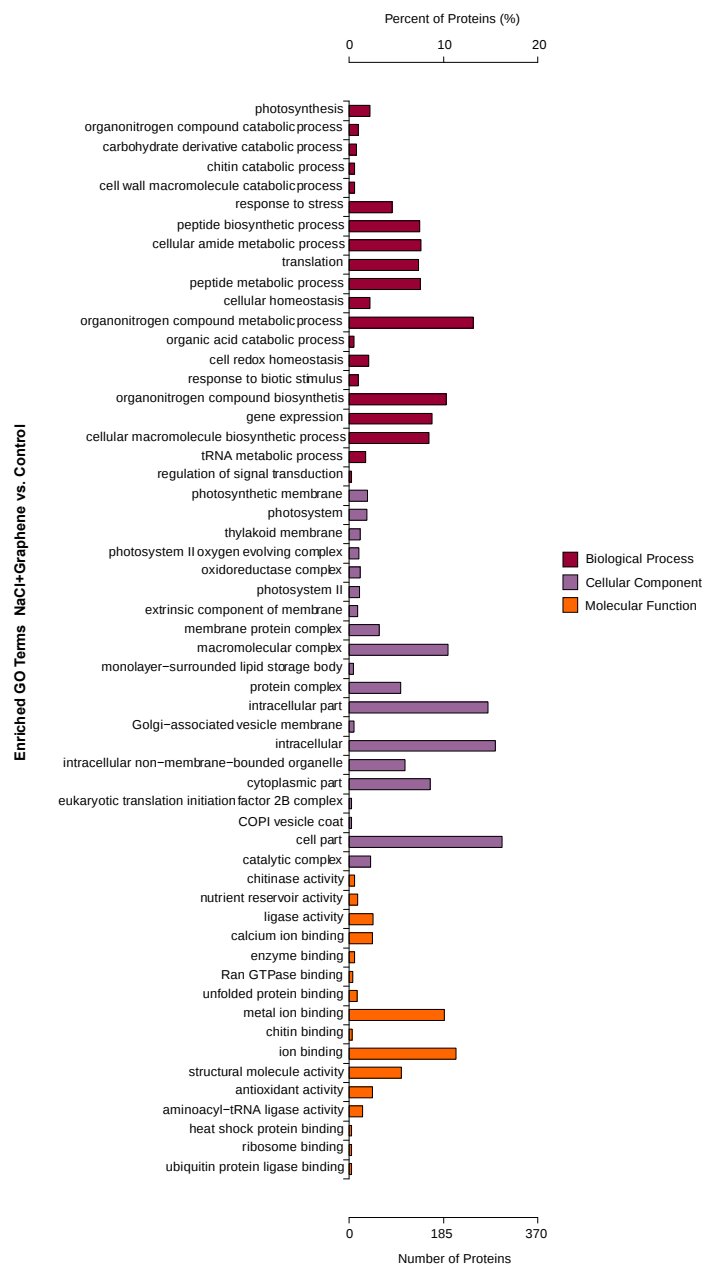
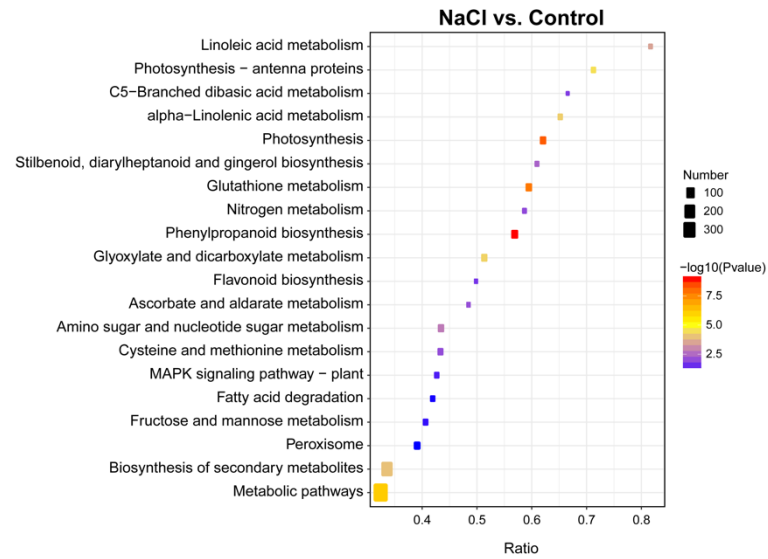
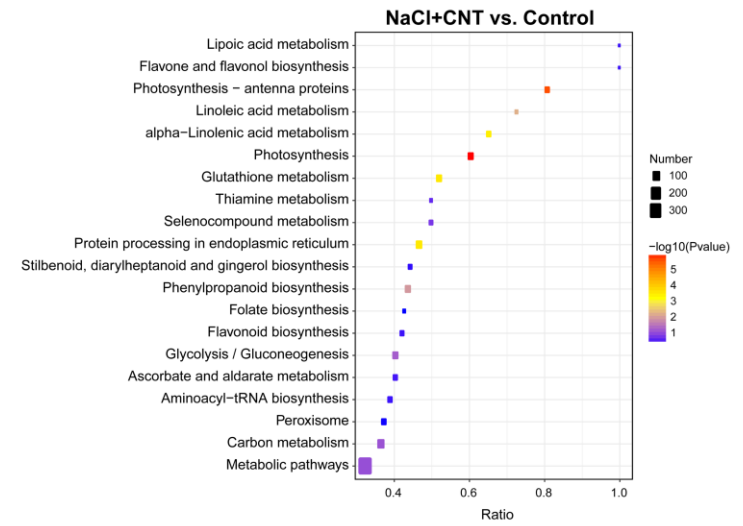


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A



B



C

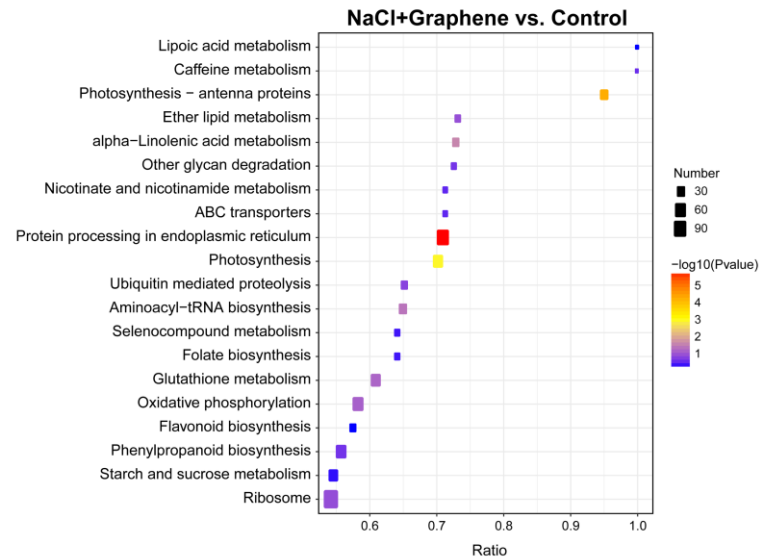


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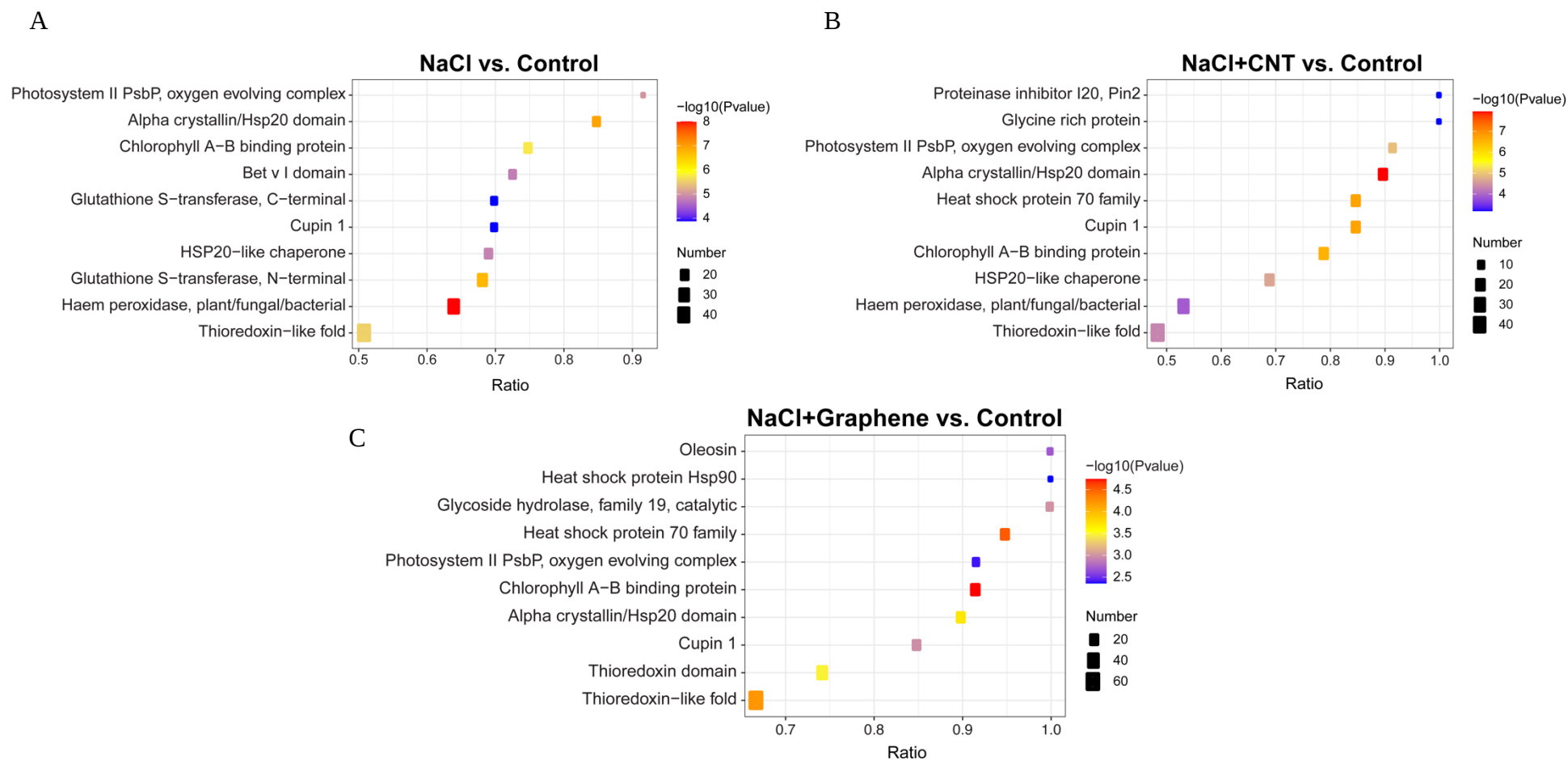
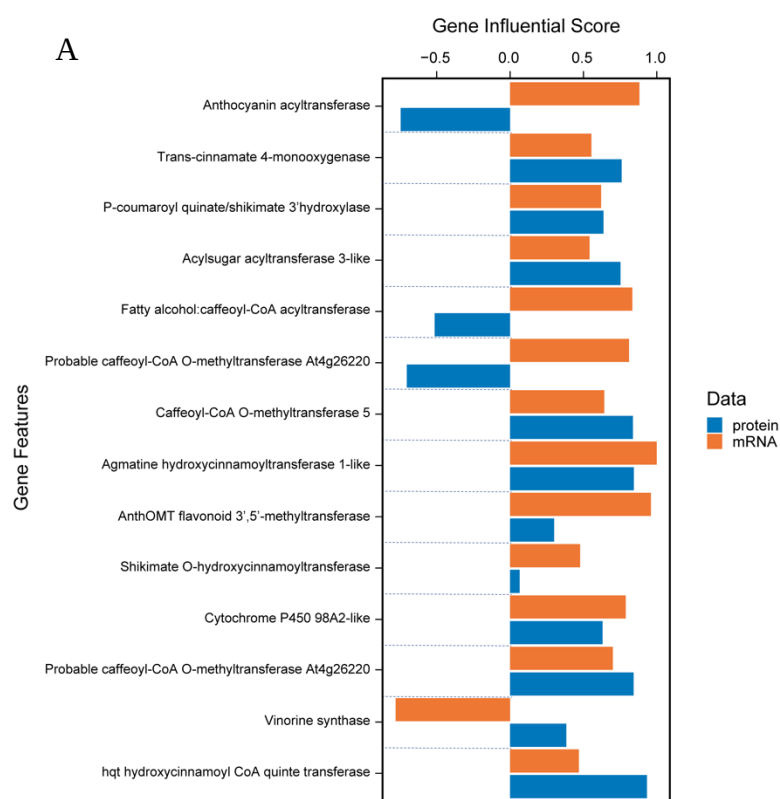
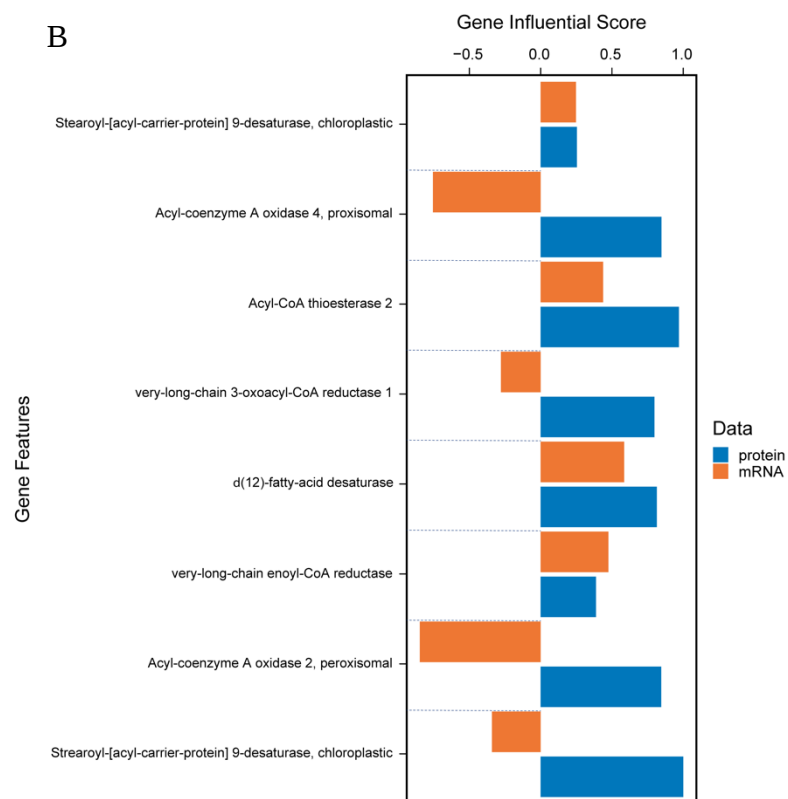


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Stilbenoid, diarylheptanoid and gingerol biosynthesis



Biosynthesis of unsaturated fatty acid

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Stilbenoid, Diarylheptanoid and gingerol biosynthesis and Biosynthesis of unsaturated fatty acid in CBN-induced salt tolerance in tomato plants.

Table S1. List of annotated tomato proteins that fully restored expression towards control level through up-regulation as result of application of graphene to salty medium.

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
1	A0A3Q7HVI0	Uncharacterized protein		-0.561630293	0.406496667
2	A0A3Q7HTH3	Uncharacterized protein		-2.353358827	0.26456698
3	A0A3Q7IQI8	Uncharacterized protein	101257824	-0.493095588	0.457809414
4	A0A3Q7H5X9	Elongation factor Ts, mitochondrial	101245558	-0.327271971	0.808781804
5	A0A3Q7H1H4	Carboxypeptidase		-0.392309628	0.386711503
6	A0A3Q7E8T9	Peroxidase		-0.568136551	0.760138895
7	A0A3Q7IPL2	Tubulin beta chain	101252240	-0.689465931	0.562396867
8	A0A3Q7JRP8	Uncharacterized protein		-0.336982228	0.318667776
9	A0A3Q7FAE2	Peptidylprolyl isomerase		-0.861481894	0.594564027
10	A0A3Q7EP13	Thioredoxin domain-containing protein	101251929	-0.341052938	0.345425165
11	A0A3Q7FZI2	14_3_3 domain-containing protein	543565	-0.278973894	0.547668315
12	Q05540	Acidic 27 kDa endochitinase	CHI17	-1.780220778	0.287952522
13	A0A3Q7ENJ9	Uncharacterized protein		-0.319018214	0.341126205
14	A0A3Q7FV86	Bet_v_1 domain-containing protein	101264616	-1.651370462	0.276046037
15	A0A3Q7G1C2	Uncharacterized protein	101245429	-1.199136599	0.70279469
16	A0A3Q7JIX8	Kinesin motor domain-containing protein		-0.328176921	0.42257509
17	A0A3Q7ILE8	Non-reducing end alpha-L-arabinofuranosidase		-0.274373512	0.289254949
18	A0A3Q7ERA8	Uncharacterized protein		-1.894050615	0.657855599
19	A0A3Q7HDI6	Protein disulfide-isomerase	101266349	-0.303362728	0.46921924
20	A0A3Q7HKE8	Glycine cleavage system H protein	101257194	-0.371397738	0.689107332
21	A0A3Q7EJL3	HABP4_PAI-RBP1 domain-containing protein	101255921	-0.432894232	0.461745801
22	A0A3Q7FI22	Rhodanese domain-containing protein		-0.571854878	0.410569972
23	A0A3Q7E7B4	PDZ domain-containing protein	101254513	-0.676036825	0.927815868
24	A0A3Q7F4I2	Uncharacterized protein		-1.234020068	0.317663158
25	A0A3Q7FKZ2	PAP_fibrillin domain-containing protein	101263678	-0.391400776	0.292117498
26	A0A3Q7I8W9	Uncharacterized protein		-1.567603187	0.350501223

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
27	A0A3Q7JFP9	Proteasome subunit alpha type	101253544	-0.290772935	0.566228651
28	A0RZD0	Inducible plastid-lipid associated protein	CHRD	-0.524126395	0.730689008
29	A0A3Q7IIT3	Ferredoxin	101265784	-0.722038759	0.54020706
30	A0A3Q7G3K3	Gal_mutarotas_2 domain-containing protein	543798	-0.265173415	1.180603822
31	A0A3Q7HRQ8	PAP_fibrillin domain-containing protein	101266439	-0.457077376	0.596015105
32	A0A3Q7IA43	C2 NT-type domain-containing protein		-0.527896205	0.436864543
33	A0A3Q7FTQ8	Uncharacterized protein	101247416	-0.519825139	0.299859068
34	A0A3Q7EHZ1	Protein kinase domain-containing protein		-0.338285465	0.635591272
35	Q2MI42	Protein TIC 214	TIC214	-0.315652221	0.28357447
36	A0A3Q7HIL7	Uncharacterized protein		-0.367503335	0.747692164
37	A0A3Q7FPN5	PLAT domain-containing protein		-0.928102063	0.275673392
38	A0A3Q7FLN4	Superoxide dismutase	101248277	-0.529129209	0.847065469
39	A0A3Q7JF55	Selenoprotein O	101245443	-0.394003799	0.365162428
40	A0A3Q7GAF4	Uncharacterized protein		-0.301266752	0.296121756
41	A0A3Q7IKY6	GrpE protein homolog		-0.326601282	1.278593296
42	A0A3Q7FBF2	Uncharacterized protein		-0.523847296	0.281686771
43	A0A3Q7HUX7	Uncharacterized protein	101255121	-0.580263724	0.568027722
44	A0A3Q7IL47	SF3b1 domain-containing protein		-0.283689915	0.314197198
45	A0A3Q7J8Q2	Str_synth domain-containing protein	101267781	-1.010173895	1.437248778
46	A0A3Q7FKJ0	Uncharacterized protein	101268253	-0.771786465	0.774016745
47	A0A3Q7IUK7	Uncharacterized protein	101247883	-0.36867481	0.804826321
48	Q9XEX8	Remorin 1	rem-1	-0.640708317	0.30664005
49	A0A3Q7HCM3	Glycosyltransferase		-0.440357175	0.643829143
50	A0A3Q7IIB9	Uncharacterized protein		-0.316299963	0.852257618
51	A0A3Q7F5S4	CAAD domain-containing protein	101248140	-0.512268635	0.68269398
52	A0A3Q7EA78	FHA domain-containing protein	101252420	-0.378124219	0.733991536
53	A0A3Q7HZ37	1,4-alpha-glucan branching enzyme		-0.462263795	0.404840844
54	A0A3Q7J1Z3	Uncharacterized protein		-0.366835402	0.380845238
55	A0A3Q7FYR5	Bet_v_1 domain-containing protein	101266326	-1.312630252	0.283340422

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
56	A0A3Q7FV93	ATPase_AAA_core domain-containing protein		-0.473629073	0.617968034
57	A0A3Q7J6R4	Uncharacterized protein	101245924	-0.298289164	0.499348492
58	A0A3Q7IFZ6	Uncharacterized protein	101254542	-0.553750272	0.274074936
59	A0A3Q7IFT3	Uncharacterized protein	101253330	-0.652028651	0.371198349
60	A0A3Q7FR24	Uncharacterized protein	101262296	-0.789920554	0.380183444
61	A0A3Q7GGQ3	Uncharacterized protein	101256588	-0.521623273	0.622272119
62	A0A3Q7J5A2	Phytoeyanin domain-containing protein		-0.675347564	0.345545292
63	A0A3Q7GEZ4	SET domain-containing protein	101259632	-0.297707228	0.514651361
64	A0A3Q7GRB6	Uncharacterized protein		-0.417822703	0.633658494
65	A0A3Q7IYQ5	Xyloglucan endotransglucosylase/hydrolase		-0.317792141	0.502224242
66	A0A3Q7HV28	Uncharacterized protein		-0.292958358	0.542067852
67	A0A3Q7INF5	Uncharacterized protein		-0.293649319	0.611000924
68	A0A3Q7HE03	Uncharacterized protein	101255514	-0.413546622	0.384905936
69	A0A3Q7JSV3	Lipoxygenase		-1.99220968	0.780739835
70	A0A3Q7JFG3	PAP_fibrillin domain-containing protein	101262674	-0.544601317	0.302500965
71	A0A3Q7F898	Peptidylprolyl isomerase		-0.553611138	0.401044071
72	O82777	Subtilisin-like protease SBT3	sbt3	-0.38724578	0.434375424
73	A0A3Q7FPR2	Uncharacterized protein	101250878	-0.401058153	1.045898077
74	A0A3Q7FW49	HMA domain-containing protein	101245116	-0.281677747	0.7407059
75	A0A3Q7ISH1	Uncharacterized protein	101245017	-0.383357914	0.568488959
76	A0A3Q7HKZ9	Serine/threonine-protein phosphatase	101254698	-0.272201789	0.30756786
77	A0A3Q7EM39	Uncharacterized protein		-0.397018169	0.377641854
78	A0A3Q7FCJ1	Uncharacterized protein	101249214	-1.407064667	0.351463881
79	A0A3Q7FQH2	Uncharacterized protein		-1.120931946	0.842427244
80	A0A3Q7JC49	Uncharacterized protein	101257748	-1.305733062	0.393670899
81	A0A3Q7J6D6	Uncharacterized protein	101254243	-0.562095383	0.587733547
82	A0A3Q7J7K2	CAAD domain-containing protein		-0.721728786	1.040150419
83	A0A3Q7GJB2	Uncharacterized protein		-0.667530341	1.077187465
84	A0A3Q7HZ40	Uncharacterized protein		-0.622415949	1.143993563

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
85	A0A3Q7H4L7	Sucrose-phosphate synthase	543516	-0.421157703	0.573048389
86	A0A3Q7IDE9	Lon protease homolog, mitochondrial		-0.323625272	0.586219267
87	A0A3Q7GFU5	X8 domain-containing protein	101257963	-0.306576889	0.315041709
88	A0A3Q7I175	Purple acid phosphatase	101255806	-0.475535594	0.54328503
89	A0A3Q7FSY4	Histidine--tRNA ligase		-0.508578801	0.546059234
90	A0A3Q7I9H2	Uncharacterized protein	104649495	-0.522628978	0.735353211
91	A0A3Q7HBA0	CAF1C_H4-bd domain-containing protein		-0.408625865	0.579577083
92	A0A3Q7IGD0	Bet_v_1 domain-containing protein	101262669	-2.167158317	0.466082062
93	A0A3Q7GNM1	Uncharacterized protein	101248300	-0.406755645	0.758115772
94	A0A3Q7FTH5	RanBD1 domain-containing protein	101248860	-1.165936884	0.427905256
95	A0A3Q7ETP9	Uncharacterized protein		-0.423445282	0.461082376
96	A0A3Q7EMN6	Rubredoxin-like domain-containing protein	101245698	-0.513954403	0.53459472
97	A0A3Q7F4A6	Eukaryotic translation initiation factor 3 subunit J	101255357	-0.355961364	0.76181257
98	A0A3Q7FVD6	Uncharacterized protein		-0.299880684	0.740536212
99	O82006	Subtilisin-like protease	sbt4a	-0.323916365	0.682347395
100	A0A3Q7J8X2	Uncharacterized protein		-0.778274247	0.458300065
101	A0A3Q7F0L2	RRM domain-containing protein		-0.402573534	0.467588021
102	K4C7H6	RNA-binding protein 8A	RBM8	-0.310810522	0.872172477
103	A0A3Q7EJ56	Uncharacterized protein		-1.227268261	0.606694478
104	A0A3Q7EIW9	Uncharacterized protein	101264758	-0.463093043	0.268319294
105	A0A3Q7HF41	Uncharacterized protein		-0.364622474	0.681692462
106	A0A3Q7FKW5	PMEI domain-containing protein	101248367	-0.646137446	0.476126771
107	A0A3Q7J641	X8 domain-containing protein		-0.310243864	0.324677253
108	A0A3Q7JPG0	Uncharacterized protein		-0.411097886	0.365122993
109	A0A3Q7J5M9	FAS1 domain-containing protein		-0.413906184	0.748549093
110	A0A3Q7FG81	AAI domain-containing protein		-1.552895876	0.777286237
111	A0A3Q7GFA8	Cellulase domain-containing protein		-0.362919781	0.656299237
112	A0A3Q7EQZ3	AAI domain-containing protein	101250539	-0.654723292	0.872403228
113	A0A3Q7EJ69	Uncharacterized protein		-0.686450323	0.580935034

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
114	A0A3Q7F0J3	1,3-beta-glucan synthase		-0.374492454	0.472138582
115	A0A3Q7FXS0	Bet_v_1 domain-containing protein	101266928	-1.340338739	0.585923209
116	A0A3Q7E8H4	Uncharacterized protein		-0.77311723	0.536675701
117	A0A3Q7G8B9	Uncharacterized protein	101246627	-0.377518801	0.432484643
118	A0A3Q7F081	Uncharacterized protein	101260262	-0.318639892	0.446850354
119	A0A3Q7JY27	t-SNARE coiled-coil homology domain-containing protein		-0.328440151	0.282825528
120	A0A3Q7HFW0	DEK C-terminal domain-containing protein		-0.38264557	0.947196924
121	A0A3Q7EG84	CarbpepA_inh domain-containing protein		-1.439257713	0.398524392
122	A0A3Q7GJM0	Phosphoinositide phospholipase C		-0.551921472	0.768519039
123	A0A3Q7INV3	Uncharacterized protein	101266888	-0.339308707	0.352284057
124	A0A3Q7ES58	Uncharacterized protein		-0.441653218	1.124887108
125	A0A3Q7J7S3	Uncharacterized protein	101254767	-0.602987406	0.887037065
126	A0A3Q7ET25	Lipoxygenase		-1.475373693	0.595242962
127	A0A3Q7H6P4	eRF1_1 domain-containing protein		-0.510651767	0.623964019
128	D3TI69	Beta-hexosaminidase	100529103	-0.531488346	0.44864402
129	A0A3Q7GX38	Uncharacterized protein		-0.525888587	0.5971831
130	A0A3Q7JNY6	Rieske domain-containing protein	543677	-0.584910438	0.771366159
131	A0A3Q7GKZ6	Bet_v_1 domain-containing protein	101268283	-0.519178578	0.292976529
132	A0A3Q7F828	Glutaredoxin domain-containing protein		-0.362174923	0.32622065
133	A0A3Q7GTD8	Uncharacterized protein	101256002	-0.535892363	0.445018411
134	A0A3Q7HHJ0	Phytocyanin domain-containing protein		-0.60699842	0.686677089
135	G5EM33	Calcineurin B-like molecule	SlCBL1	-0.548338937	0.334497858
136	A0A3Q7G0G3	Uncharacterized protein	101268563	-0.613621264	0.524290373
137	A0A3Q7FIV4	AAI domain-containing protein		-1.756679993	0.518492264
138	A0A3Q7GYC5	AAA domain-containing protein	101254686	-0.286508577	0.652863927
139	A0A3Q7IZ25	CP-type G domain-containing protein		-0.289460726	0.267728802
140	A0A3Q7IR60	Uncharacterized protein	101259105	-0.294566332	0.264140705
141	A0A3Q7J5Z2	Uncharacterized protein		-0.303962797	0.551554565
142	A0A3Q7JGU1	C2H2-type domain-containing protein		-0.279702684	0.446184061

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
143	A0A3Q7EL18	Pectinesterase	101247960	-0.474353076	0.296821389
144	A0A3Q7F6K7	Uncharacterized protein		-0.28195422	0.497377575
145	A0A3Q7G9S5	Glycosyltransferase	101253890	-0.395420999	0.501132296
146	A0A3Q7GAE1	Uncharacterized protein		-0.428923939	0.356253128
147	A0A3Q7JC86	Uncharacterized protein		-0.671873937	0.415174423
148	A0A3Q7IHV6	Protein DETOXIFICATION		-0.496860204	0.274357727
149	A0A3Q7HUB9	Protein kinase domain-containing protein	101250433	-0.578015756	0.419053675
150	A0A3Q7EYH4	Peptidase_S9_N domain-containing protein		-0.443015655	0.553829629
151	A0A3Q7F9U8	Uncharacterized protein	101257421	-0.572418158	0.589304661
152	A0A3Q7G459	TENA_THI-4 domain-containing protein		-0.43935402	0.5110934
153	A0A3Q7I812	C2 domain-containing protein	101247860	-0.437598954	0.478747014
154	A0A3Q7FUF9	H15 domain-containing protein		-0.584172451	0.422005162
155	A0A3Q7GT59	Uncharacterized protein		-0.666300115	0.269346851
156	A0A3Q7HCA9	X8 domain-containing protein	101258672	-0.418009367	0.286639679
157	A0A3Q7F9I6	Hexosyltransferase	101246582	-0.281280218	0.476980414
158	A0A3Q7ERB4	PLAT domain-containing protein		-1.285035531	0.707542764
159	A0A3Q7G8P0	Uncharacterized protein		-0.482646133	0.725956628
160	A0A3Q7EMN3	Uncharacterized protein	101245401	-0.45522906	0.298585778
161	A0A3Q7ILY9	Uncharacterized protein	101263952	-0.481905586	0.610679354
162	A0A3Q7GAB7	Methyltransferase	101265541	-0.279223644	0.299988101
163	A0A3Q7HW56	Tho1_MOS11_C domain-containing protein	101264966	-0.271794436	0.287523551
164	A0A3Q7FF75	Uncharacterized protein	101253732	-0.819659108	0.463083645
165	A0A3Q7J109	Uncharacterized protein		-0.317495947	0.798939092
166	A0A3Q7IZM8	Uncharacterized protein		-0.36159824	0.702641333
167	A0A3Q7IN56	Uncharacterized protein	101251832	-0.387062488	0.339197163
168	A0A3Q7FIN1	ENT domain-containing protein		-0.368665994	0.281671947
169	A0A3Q7HZC7	HMG box domain-containing protein		-0.489242486	0.523776729
170	A0A3Q7FQP1	Uncharacterized protein	101259522	-0.474745769	0.391480306
171	A0A3Q7FE00	Uncharacterized protein		-0.391872123	0.794666514

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
172	A0A3Q7G1W0	Uncharacterized protein		-0.497765383	0.775480023
173	A0A3Q7F043	Uncharacterized protein		-0.588937059	1.130599945
174	A0A3Q7I7Z6	Uncharacterized protein		-0.518046254	0.726400083
175	A0A3Q7EKX3	Fe2OG dioxygenase domain-containing protein		-0.482090681	0.465509278
176	A0A3Q7J9W9	Uncharacterized protein		-0.368868596	0.492626202
177	A0A3Q7J3N2	Uncharacterized protein		-0.391699143	0.75540364
178	A0A3Q7H9U7	Uncharacterized protein		-0.393199008	0.336676757
179	A0A3Q7F322	Uncharacterized protein	101257599	-0.383029263	0.422427339
180	F1JYZ6	Autophagy-related protein	100736469	-0.295571723	0.279877916
181	Q9SMD1	Small ubiquitin-related modifier	sumo	-0.486400701	0.440577135
182	A0A3Q7FA35	Uncharacterized protein		-0.423141798	0.263371755
183	A0A3Q7JCW0	Sec3-PIP2_bind domain-containing protein	101268171	-0.695222659	0.285282498
184	A0A3Q7G7Y7	Protein kinase domain-containing protein		-0.557089433	0.429715024
185	A0A3Q7G0V7	PAM2 domain-containing protein	101253770	-0.599144313	0.345118794
186	A0A3Q7GTM8	Uncharacterized protein		-0.349631772	0.576210532
187	A0A3Q7IYC6	DOG1 domain-containing protein		-0.491104157	0.434811173
188	A0A3Q7IM32	Uncharacterized protein		-0.518884347	0.576683214
189	A0A3Q7HNP6	PHD-type domain-containing protein	543925	-0.629017681	0.633530337
190	A0A3Q7HI59	Thioredoxin domain-containing protein	101254614	-0.364355364	0.692154017
191	A0A3Q7IAU9	Uncharacterized protein	101259586	-0.270393169	0.485232987
192	A0A3Q7FNE0	DEK C-terminal domain-containing protein		-0.347946089	0.268341364
193	A0A3Q7HM61	Uncharacterized protein		-0.516114926	0.511388095
194	O65837	Lycopene epsilon cyclase, chloroplastic	CRTL-E-1	-0.483460025	0.509765787
195	A0A3Q7GT02	Uncharacterized protein	101262219	-0.400334331	0.981679817
196	A0A3Q7IXT7	Amidohydro-rel domain-containing protein	101261880	-0.317843767	0.480545504
197	A0A3Q7HHA9	Uncharacterized protein		-0.287914787	0.579849146
198	A0A3Q7HZC9	Uncharacterized protein		-0.554883431	0.283873532
199	A0A3Q7I0U0	Clathrin light chain		-0.387012017	0.326444898
200	A0A3Q7G7G8	CS domain-containing protein	544222	-0.372729946	0.585205236

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
201	A0A3Q7F451	Plus3 domain-containing protein	101265395	-0.373702702	0.294328323
202	A0A3Q7GHK0	Bet_v_1 domain-containing protein		-1.809826677	0.275651751
203	A0A3Q7JG91	Uncharacterized protein		-0.367910104	0.273619112
204	A0A3Q7ER08	PHD-type domain-containing protein	101250743	-0.780345589	0.428675882
205	A0A3Q7IYM4	Uncharacterized protein	101260693	-0.457026737	0.482097898
206	A0A3Q7FT97	FPG_CAT domain-containing protein	101258844	-0.335479973	0.416581314
207	A0A3Q7IMC1	Uncharacterized protein	101263653	-0.488071667	0.280852152
208	A0A3Q7H9T7	Uncharacterized protein		-0.663673007	0.410712073
209	A0A3Q7GC91	Uncharacterized protein		-0.43452239	0.43802028
210	A0A3Q7ER58	RRM domain-containing protein		-0.492676938	0.420810952
211	A0A3Q7I1E8	J domain-containing protein		-0.422957163	0.627564003
212	Q00497	Shikimate kinase, chloroplastic	SK	-0.376678299	0.617484792
213	A0A3Q7FR98	AAA domain-containing protein	101256833	-0.264107117	0.842291388
214	A0A3Q7JDY1	Uncharacterized protein	101250100	-0.410059823	0.418621837
215	A0A3Q7F0N9	ENT domain-containing protein		-0.403120487	0.32513875
216	A0A3Q7G835	Protein kinase domain-containing protein		-0.272199363	0.285046969
217	A0A3Q7HGT3	CNH domain-containing protein		-0.271039156	0.43785481
218	K4AU10	RNase III domain-containing protein		-1.475769171	0.60001718
219	A0A3Q7IC55	Uncharacterized protein	101252726	-0.275385509	0.645585369
220	A0A3Q7HBN2	Uncharacterized protein	101260155	-0.550081983	0.266747541
221	A0A3Q7IYP1	DNA ligase	101262281	-0.48397323	0.497209057
222	A0A3Q7I6I0	Uncharacterized protein	101258304	-0.73969642	0.370626296
223	A0A3Q7FN33	Uncharacterized protein		-0.453059233	0.878451047
224	A0A3Q7IQI5	Uncharacterized protein	101251141	-0.462575391	0.694177289
225	A0A3Q7EJC9	Germin-like protein		-1.53572253	0.793991192
226	A0A3Q7J2H5	Protein kinase domain-containing protein		-0.276331228	0.532415918
227	A0A3Q7F207	Uncharacterized protein	101245912	-0.604731793	0.324790611

Table S2. List of annotated tomato proteins that partially restored expression towards control level through up-regulation as result of application of graphene to salty medium

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
1	A0A3Q7GV49	Protein kinase domain-containing protein		-0.870239109	-0.267594045
2	A0A3Q7J1V3	Chlorophyll a-b binding protein, chloroplastic	543976	-1.00152163	-0.291178032
3	A0A3Q7G195	Chlorophyll a-b binding protein, chloroplastic		-1.365070509	-0.396455556
4	A0A3Q7IHS3	Chitin-binding type-1 domain-containing protein	101267358	-0.931873294	-0.391542635
5	A0A3Q7ER05	Peroxidase	544293	-0.583620414	-0.342159217
6	A0A3Q7HVV0	Uncharacterized protein		-0.781993502	-0.435324722
7	A0A3Q7IAX8	Chlorophyll a-b binding protein, chloroplastic	101253628	-0.918616387	-0.295522892
8	A0A3Q7I500	Peroxidase		-0.910842102	-0.533850511
9	A0A3Q7IQ03	Uncharacterized protein		-2.174190668	-0.335918361
10	A0A3Q7HHU2	Chlorophyll a-b binding protein, chloroplastic	101268123	-0.929074733	-0.568557116
11	A0A3Q7E938	Uncharacterized protein	543986	-1.715686165	-0.32823147
12	A0A3Q7JSZ2	Chlorophyll a-b binding protein, chloroplastic	101265617	-0.720739327	-0.595162367
13	P27489	Chlorophyll a-b binding protein 13, chloroplastic	CAB13	-1.098532724	-0.379341879
14	A0A3Q7ENB7	Uncharacterized protein		-0.351839578	-0.326308759
15	A0A3Q7JGB8	Uncharacterized protein	101245901	-0.352813633	-0.278104786
16	A0A3Q7EMC4	Uncharacterized protein		-1.427399526	-0.265375285
17	A0A3Q7F386	Photosystem I reaction center subunit III	101245121	-1.239185153	-0.342024815
18	A0A3Q7F1E4	Photosystem I reaction center subunit III		-0.957518465	-0.371258821
19	A0A494GA45	SCP domain-containing protein		-1.942708711	-0.363162489
20	A0A3Q7HCE6	Uncharacterized protein		-0.765150323	-0.277411804
21	A0A3Q7GXD3	Uncharacterized protein	101248983	-0.958665216	-0.318621138
22	A0A3Q7FAG6	Uncharacterized protein		-0.504337154	-0.402584349
23	P32045	Pathogenesis-related protein P2		-0.715759629	-0.406213268
24	P10707	Chlorophyll a-b binding protein 1D (Fragment)	CAB1D	-1.297323578	-0.298585522
25	A0A3Q7I0A1	Glutathione transferase		-0.559034123	-0.383661283
26	P80196	Intracellular ribonuclease LX	RNALX	-0.640383391	-0.368450015

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
27	A0A3Q7F572	PMR5N domain-containing protein		-1.185329269	-0.273174804
28	A0A3Q7ICQ3	AvrRpt-cleavage domain-containing protein	101249473	-0.429119554	-0.378747493
29	A0A3Q7ENM6	Uncharacterized protein	101259198	-0.556249432	-0.365778357
30	A0A3Q7FQR1	Uncharacterized protein		-0.609460329	-0.407802738
31	A0A3Q7FUV8	AAI domain-containing protein	101262798	-0.707487813	-0.304078221
32	A0A3Q7F1E6	Patatin		-1.032667126	-0.317725733
33	A0A3Q7IT66	Uncharacterized protein	100750253	-0.281776068	-0.267039322
34	A0A3Q7FF27	Chlorophyll a-b binding protein, chloroplastic		-1.028831484	-0.304715694
35	A0A3Q7EI44	Uncharacterized protein	101249488	-0.613498654	-0.352865816
36	A0A3Q7IYL7	AvrRpt-cleavage domain-containing protein	101248708	-0.698769271	-0.307514198
37	A0A3Q7FNC1	AA_permease_C domain-containing protein		-0.710915758	-0.481389449
38	A0A3Q7FEB8	Glycerophosphodiester phosphodiesterase	101261081	-2.369961549	-0.480520888
39	A0A3Q7F9Y6	Uncharacterized protein		-0.452739006	-0.375726497
40	A0A3Q7E8Q1	SF1-HH domain-containing protein	101266547	-0.976070494	-0.379221182
41	Q2MI93	ATP synthase subunit beta, chloroplastic	atpB	-0.409370136	-0.390276649
42	Q5NE20	Carbonic anhydrase	ca2	-0.46013153	-0.394733405
43	A0A3Q7F980	Fructose-bisphosphate aldolase		-0.401066074	-0.28590252
44	A0A3Q7IQB7	Uncharacterized protein	101249417	-0.487424978	-0.440647579
45	A0A3Q7GLK1	Uncharacterized protein		-0.494471249	-0.403848726
46	A0A3Q7HTH3	Uncharacterized protein		-2.353358827	-2.088791847
47	A0A3Q7HG29	Multifunctional fusion protein		-0.570632865	-0.539020883
48	A0A3Q7I5A7	Epimerase domain-containing protein	544217	-0.452534087	-0.389750268
49	A0A3Q7GZW2	Epimerase domain-containing protein	101253094	-0.549777922	-0.49209172
50	A0A3Q7EHJ9	Glucose-1-phosphate adenylyltransferase	544039	-0.375112239	-0.318621992
51	A0A3Q7IHG0	Uncharacterized protein	101250846	-0.561963685	-0.535418606
52	P29795	Oxygen-evolving enhancer protein 2, chloroplastic	PSBP	-0.510023863	-0.448492286
53	A0A3Q7HRC7	M20_dimer domain-containing protein		-0.95988603	-0.7775479
54	A4ZYQ6	1-aminocyclopropane-1-carboxylate oxidase	100125909	-0.482951438	-0.453633011
55	A0A3Q7ILV3	Thioredoxin-dependent peroxiredoxin	101250263	-0.452837719	-0.331452613

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
56	Q2MI44	NAD(P)H-quinone oxidoreductase subunit H, chloroplastic	ndhH	-0.488469873	-0.364824519
57	P54773	Photosystem II 22 kDa protein, chloroplastic	PSBS	-0.569740304	-0.367462882
58	A0A3Q7F5X4	Uncharacterized protein		-0.477374425	-0.402278851
59	A0A3Q7FU38	Uncharacterized protein	101253367	-0.540757283	-0.527887242
60	A0A3Q7HBV3	Germin-like protein	101254918	-0.5438152	-0.513847461
61	Q05540	Acidic 27 kDa endochitinase	CHI17	-1.780220778	-1.492268257
62	A0A3Q7JE42	PDZ domain-containing protein	101267880	-0.339938083	-0.279894494
63	A0A3Q7FCN5	SAM_MPBQ_MSBQ_MT domain-containing protein	101255662	-0.394839835	-0.387409928
64	A0A3Q7FNK6	NAD(P)-bd_dom domain-containing protein	101268541	-0.551126758	-0.541296296
65	A0A3Q7HXW1	Uncharacterized protein		-1.960309252	-1.851130962
66	A0A3Q7HR46	Lactoylglutathione lyase	101259466	-0.479891372	-0.324346008
67	A0A3Q7FSS5	23 kDa subunit of oxygen evolving system of photosystem II	101259227	-0.62308779	-0.595507735
68	A0A3Q7F5F8	Cysteine synthase	101255033	-0.589488815	-0.505541714
69	A0A3Q7IGW5	Uncharacterized protein	101268298	-0.304973228	-0.276001691
70	A0A3Q7FV86	Bet_v_1 domain-containing protein	101264616	-1.651370462	-1.375324425
71	A0A3Q7G1C2	Uncharacterized protein	101245429	-1.199136599	-0.496341909
72	A0A3Q7I3Q3	Ribosome-recycling factor, chloroplastic	101257700	-0.583476702	-0.571242956
73	A0A3Q7FUS2	PPIase cyclophilin-type domain-containing protein	101257251	-0.460509251	-0.321104152
74	A0A3Q7IBR9	Thioredoxin domain-containing protein	101268617	-0.674867106	-0.668454154
75	A0A3Q7ERA8	Uncharacterized protein		-1.894050615	-1.236195016
76	A0A3Q7JDI6	Glyco_hydro_19_cat domain-containing protein		-0.595220406	-0.37244987
77	A0A3Q7FEJ3	Uncharacterized protein		-2.63106339	-2.242270622
78	A0A3Q7FH23	Uncharacterized protein	109119847	-2.706005721	-2.570382129
79	A0A3Q7FSK9	Uncharacterized protein		-1.18026592	-0.927487979
80	Q9XG54	12-oxophytodienoate reductase 1	OPR1	-0.297842748	-0.285712944
81	A0A3Q7GNR7	Uncharacterized protein		-0.552385986	-0.333896699
82	P05116	1-aminocyclopropane-1-carboxylate oxidase 1	ACO1	-0.332891241	-0.274743097
83	A0A3Q7IWK3	PAP_fibrillin domain-containing protein	101251147	-0.747932822	-0.67487185
84	A0A3Q7G1J0	Peptidylprolyl isomerase	101257061	-0.738973977	-0.735571342

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
85	K4CWU7	Uncharacterized protein	104649419	-2.000044277	-1.579627539
86	A0A3Q7IT16	Peptidylprolyl isomerase	101251715	-0.896445351	-0.831680911
87	A0A3Q7F4I2	Uncharacterized protein		-1.234020068	-0.91635691
88	A0A3Q7I8W9	Uncharacterized protein		-1.567603187	-1.217101964
89	A0A3Q7FMC9	PLAT domain-containing protein	101266493	-1.817843895	-1.786340579
90	A0A3Q7I5F4	Photosystem II reaction center Psb28 protein	101245880	-0.530361294	-0.47481812
91	A0A3Q7FWH1	Germin-like protein	101250583	-0.677249177	-0.620119211
92	A0A3Q7GXS6	Thioredoxin-like_fold domain-containing protein	101265345	-0.297291524	-0.283075605
93	A0A3Q7I0F0	Peptidyl-prolyl cis-trans isomerase		-0.769355564	-0.705326341
94	A0A3Q7J0J3	Uncharacterized protein		-2.016721135	-1.974927463
95	A0A3Q7HFK3	Uncharacterized protein		-0.75277379	-0.676366343
96	A0A3Q7HK64	Bet_v_1 domain-containing protein	101245781	-2.023008807	-1.76191945
97	A0A3Q7IE21	PAP_fibrillin domain-containing protein	101268326	-0.743499997	-0.598038984
98	A0A3Q7IH24	23 kDa subunit of oxygen evolving system of photosystem II	101256723	-0.455766026	-0.430596323
99	A0A3Q7IKV0	23 kDa subunit of oxygen evolving system of photosystem II	101249944	-0.474821489	-0.431616579
100	A0A3Q7EIF5	23 kDa subunit of oxygen evolving system of photosystem II	101243638	-0.599446686	-0.563270839
101	A0A3Q7FUU1	H15 domain-containing protein	101245534	-0.357747438	-0.282215081
102	A0A3Q7EQL6	SET domain-containing protein		-0.273584031	-0.270132823
103	A0A3Q7H377	GH18 domain-containing protein	101257783	-1.666598604	-1.447912627
104	A0A3Q7I2U8	Glyco_transf_28 domain-containing protein	101263151	-0.413424085	-0.363990513
105	A0A3Q7FPN5	PLAT domain-containing protein		-0.928102063	-0.652428672
106	A0A3Q7G3C1	23 kDa subunit of oxygen evolving system of photosystem II		-0.495302675	-0.409719988
107	A0A3Q7IA78	Uncharacterized protein		-0.485767068	-0.442875611
108	P05119	Wound-induced proteinase inhibitor 2		-1.791934249	-1.673525726
109	Q84P54	Gamma aminobutyrate transaminase 1, mitochondrial	GABA-TP1	-0.334852209	-0.283469843
110	A0A3Q7FYT5	23 kDa subunit of oxygen evolving system of photosystem II	101259233	-0.467705951	-0.456467059
111	A0A3Q7IA09	Uncharacterized protein		-3.123810828	-2.508959865
112	A0A3Q7GST1	Uncharacterized protein		-2.364162726	-2.20908671

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
113	A0A3Q7GFE2	Uncharacterized protein	101245045	-0.528124557	-0.443232555
114	A0A3Q7F176	AB hydrolase-1 domain-containing protein	101244450	-0.41170439	-0.347714246
115	A0A3Q7HP70	Lactamase_B domain-containing protein	101266523	-0.421180959	-0.399804422
116	A0A3Q7HAA3	ATP-dependent 6-phosphofructokinase	PFK	-0.324855468	-0.289637754
117	A0A3Q7HFM7	t-SNARE coiled-coil homology domain-containing protein		-0.322514577	-0.306085524
118	A0A3Q7FYR5	Bet_v_1 domain-containing protein	101266326	-1.312630252	-1.02928983
119	A0A3Q7IFZ6	Uncharacterized protein	101254542	-0.553750272	-0.279675335
120	A0A3Q7GTJ7	Rhodanese domain-containing protein	101262218	-0.829361241	-0.734637502
121	A0A3Q7IFT3	Uncharacterized protein	101253330	-0.652028651	-0.280830302
122	A0A3Q7FR24	Uncharacterized protein	101262296	-0.789920554	-0.40973711
123	A0A3Q7J5A2	Phytocyanin domain-containing protein		-0.675347564	-0.329802272
124	A0A3Q7HVR1	Uncharacterized protein	101261356	-0.609117677	-0.476325967
125	A0A3Q7HTK5	Uncharacterized protein	101244674	-0.374415398	-0.287557086
126	P12360	Chlorophyll a-b binding protein 6A, chloroplastic	CAB6A	-0.843605464	-0.78899405
127	A0A3Q7I9J3	Uncharacterized protein		-0.411021468	-0.344992701
128	K4BAJ5	Vitamin K epoxide reductase	100037492	-0.392194459	-0.297179511
129	A0A3Q7F7I4	Uncharacterized protein		-0.600726776	-0.583778238
130	A0A3Q7JSV3	Lipoxygenase		-1.99220968	-1.211469845
131	A0A3Q7GW26	AAI domain-containing protein	101263716	-0.573698956	-0.383288902
132	A0A3Q7H1H3	PUM-HD domain-containing protein	101245368	-0.387512245	-0.367503465
133	A0A3Q7FCJ1	Uncharacterized protein	101249214	-1.407064667	-1.055600786
134	A0A3Q7FQH2	Uncharacterized protein		-1.120931946	-0.278504702
135	A0A3Q7I643	Histone H2A		-0.601871902	-0.511614674
136	A0A3Q7JC49	Uncharacterized protein	101257748	-1.305733062	-0.912062163
137	A0A3Q7FP33	Uncharacterized protein		-1.047112986	-0.581159693
138	A0A3Q7EL73	Uncharacterized protein	101253424	-0.464027471	-0.318526254
139	A0A3Q7EIR1	Clustered mitochondria protein homolog		-0.479477103	-0.329363658
140	A0A3Q7JB69	Uncharacterized protein		-1.145315253	-0.885478926
141	A0A3Q7IA26	Pyridoxal phosphate homeostasis protein	101263166	-0.401429541	-0.298670912

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
142	A0A3Q7IBN5	Usp domain-containing protein	101247371	-0.316815759	-0.304747945
143	A0A3Q7IGD0	Bet_v_1 domain-containing protein	101262669	-2.167158317	-1.701076254
144	A0A3Q7GNX5	H15 domain-containing protein	101268754	-0.514704669	-0.511053966
145	A0A3Q7FTH5	RanBD1 domain-containing protein	101248860	-1.165936884	-0.738031628
146	A0A3Q7J297	MSP domain-containing protein	101266192	-0.452748192	-0.4412716
147	K4D5S3	H15 domain-containing protein	101257130	-0.678699785	-0.63728368
148	A0A3Q7J2J3	Very-long-chain 3-oxoacyl-CoA synthase		-0.419230613	-0.266378273
149	A0A3Q7J8X2	Uncharacterized protein		-0.778274247	-0.319974182
150	P20076	Ethylene-responsive proteinase inhibitor 1		-0.899754639	-0.668275076
151	A0A3Q7FTN2	X8 domain-containing protein		-0.46518711	-0.425742568
152	A0A3Q7Hqw6	DUF1995 domain-containing protein	101261055	-0.548029754	-0.416683121
153	A0A3Q7I8J8	Uncharacterized protein	101266364	-0.468634797	-0.34596917
154	K4BRC3	ATP-synt_ab domain-containing protein		-0.387936898	-0.30302708
155	A0A3Q7G3M1	Uncharacterized protein		-0.432837025	-0.373348123
156	A0A3Q7EJ56	Uncharacterized protein		-1.227268261	-0.620573782
157	A0A3Q7FTJ7	Peptidase A1 domain-containing protein		-1.055366969	-1.051674223
158	A0A3Q7F9H3	Uncharacterized protein		-1.059054243	-0.972340322
159	A0A3Q7HIB3	Uncharacterized protein		-0.370141159	-0.367385294
160	A0A3Q7FMX6	Uncharacterized protein		-0.607251007	-0.379942942
161	K4AZN6	Mitogen-activated protein kinase	MAPK4-2	-0.431308809	-0.35313168
162	A0A3Q7FG81	AAI domain-containing protein		-1.552895876	-0.775609639
163	A0A3Q7H3Z1	Uncharacterized protein		-0.980888018	-0.829471505
164	A0A3Q7G3C5	Transcription elongation factor SPT5		-0.408801401	-0.377282831
165	A0A3Q7FXS0	Bet_v_1 domain-containing protein	101266928	-1.340338739	-0.754415531
166	Q40128	Flower-specific gamma-thionin-like protein/acidic protein	544000	-1.002939964	-0.756555426
167	A0A3Q7FSL5	Uncharacterized protein	101266112	-0.368753139	-0.319586662
168	A0A3Q7EG84	CarbpepA_inh domain-containing protein		-1.439257713	-1.040733321
169	A0A3Q7J3R3	Beta-galactosidase	543736	-0.416296611	-0.263614555
170	A0A3Q7HIP8	Photosystem I reaction center subunit V, chloroplastic	101263732	-0.769877709	-0.641144394

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
171	A0A3Q7FJM3	CTP_transf_like domain-containing protein		-0.360903147	-0.286635068
172	A0A3Q7I155	Uncharacterized protein	101253800	-0.51564211	-0.499818554
173	A0A3Q7ET25	Lipoxygenase		-1.475373693	-0.880130731
174	A0A3Q7GMD6	NADH:ubiquinone reductase (non-electrogenic)		-0.51736191	-0.26484307
175	A0A3Q7GXE1	AAI domain-containing protein	101254214	-0.38178485	-0.311832991
176	A0A3Q7GMR4	Hexosyltransferase	101249825	-0.34996765	-0.286857606
177	A0A3Q7IA04	Uncharacterized protein		-1.358684941	-1.108938732
178	A0A3Q7JVY6	Aldo_ket_red domain-containing protein	101254364	-0.466404095	-0.347275658
179	A0A3Q7J9H2	Uncharacterized protein		-2.129463833	-1.688820254
180	A0A3Q7IBT2	SSXT domain-containing protein	101267451	-0.550659168	-0.533207347
181	A0A3Q7J4K7	Uncharacterized protein		-1.030790301	-1.01146204
182	A0A3Q7IAQ5	Folate gamma-glutamyl hydrolase		-0.697955698	-0.658064521
183	A0A3Q7FYS4	Uncharacterized protein	101247207	-0.49111785	-0.318509552
184	A0A3Q7FIV4	AAI domain-containing protein		-1.756679993	-1.238187729
185	A0A3Q7FC57	YrdC-like domain-containing protein		-0.489393272	-0.277602137
186	A0A3Q7IRH0	Peptidase A1 domain-containing protein	101262373	-0.453164434	-0.293454919
187	A0A3Q7FXD9	Uncharacterized protein		-0.418371129	-0.403950939
188	A0A3Q7HTB0	Uncharacterized protein	101267256	-0.785884773	-0.780387874
189	A0A3Q7HKM1	Uncharacterized protein		-0.398003773	-0.281686977
190	A0A3Q7GJU3	Uncharacterized protein		-0.975680674	-0.885618331
191	A0A3Q7GG14	Uncharacterized protein		-0.975147068	-0.84945087
192	A0A3Q7GAG5	PMEI domain-containing protein	101248653	-0.512112977	-0.483374629
193	C1K5M2	Dimethylallylcitransferase CPT1, chloroplastic	CPT1	-0.623405717	-0.361973928
194	A0A3Q7F628	Uncharacterized protein	101263075	-0.507988801	-0.50396189
195	A0A3Q7FNP7	Uncharacterized protein	101267007	-0.456275045	-0.370956431
196	A0A3Q7JSX4	Phospholipase D		-0.328454082	-0.303420202
197	A0A3Q7ESQ1	DYW_deaminase domain-containing protein		-1.050952056	-0.853799009
198	A0A3Q7HG40	Galactinol--sucrose galactosyltransferase	544236	-0.355438342	-0.305792707
199	A0A3Q7GT59	Uncharacterized protein		-0.666300115	-0.396953264

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
200	A0A3Q7I3X7	NAB domain-containing protein	101265068	-0.461435599	-0.396683662
201	A0A3Q7JHQ6	J domain-containing protein		-0.341905152	-0.275612689
202	A0A494G8N5	Putative gamma-glutamylcyclotransferase		-0.689542086	-0.459986006
203	A0A3Q7FF75	Uncharacterized protein	101253732	-0.819659108	-0.356575463
204	A0A3Q7H860	Nuclear nucleic acid-binding protein C1D		-0.361350517	-0.268885945
205	A0A3Q7EFY6	AB hydrolase-1 domain-containing protein		-0.622434238	-0.608611905
206	A0A3Q7GD91	J domain-containing protein	101251582	-1.12415382	-0.578581785
207	A0A3Q7G0Q1	Uncharacterized protein	109118702	-0.353291047	-0.339374956
208	A0A3Q7GRI9	AAI domain-containing protein		-1.248204861	-1.202334268
209	A0A3Q7I877	Uncharacterized protein		-1.118861487	-0.809579301
210	Q43502	Proteinase inhibitor type-2 CEVI57	CEVI57	-1.43260746	-1.432449986
211	A0A3Q7FKM6	Uncharacterized protein		-0.492366605	-0.312604554
212	A0A3Q7FFM8	4HBT domain-containing protein	101259914	-0.876493243	-0.574570441
213	A0A3Q7EI38	CNNM transmembrane domain-containing protein	101259481	-0.377581066	-0.307944152
214	A0A3Q7GGH7	Uncharacterized protein		-0.341769837	-0.291043104
215	A0A3Q7F289	Glycosyltransferase		-0.516601139	-0.310623864
216	A0A3Q7HDM6	Uncharacterized protein	101250133	-1.024913262	-0.93104943
217	A0A3Q7H2L1	Uncharacterized protein	101248479	-0.847120687	-0.720696609
218	A0A3Q7JCW0	Sec3-PIP2_bind domain-containing protein	101268171	-0.695222659	-0.409940161
219	A0A3Q7HRT6	Uncharacterized protein		-0.415938902	-0.3587435
220	A0A3Q7FRE7	MSP domain-containing protein	101251644	-0.445150313	-0.424705087
221	A0A3Q7EGL7	Polyketide_cyc domain-containing protein		-0.547873182	-0.496190618
222	A0A3Q7HQ53	Peptidase A1 domain-containing protein	101244399	-0.93395435	-0.755870351
223	A0A3Q7ICW0	Uncharacterized protein	101244324	-0.759351319	-0.659666764
224	Q53U36	Uncharacterized protein	778362	-1.056431132	-0.878220591
225	A0A3Q7FTQ1	Rubredoxin-like domain-containing protein	101245339	-0.634141598	-0.544356474
226	A0A3Q7HZ26	Uncharacterized protein		-0.366341833	-0.341027617
227	A0A3Q7IIV2	Ammonium transporter	101246876	-0.595903902	-0.376540586
228	A0A3Q7HPR6	Peptidase A1 domain-containing protein	101244101	-0.445647635	-0.309678525

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
229	A0A3Q7F5X8	Uncharacterized protein	101245105	-0.698162348	-0.619889643
230	A0A3Q7HZC9	Uncharacterized protein		-0.554883431	-0.271009899
231	A0A3Q7I0L5	AB hydrolase-1 domain-containing protein	101263149	-0.593419457	-0.480473712
232	A0A3Q7GHK0	Bet_v_1 domain-containing protein		-1.809826677	-1.534174926
233	A0A3Q7FP19	Uncharacterized protein	101244265	-0.839855489	-0.677463795
234	A0A3Q7ER08	PHD-type domain-containing protein	101250743	-0.780345589	-0.351669707
235	A0A3Q7EVL2	Uncharacterized protein	101254143	-0.394166321	-0.270411241
236	A0A3Q7FIQ7	Uncharacterized protein		-0.493771442	-0.435712037
237	A0A3Q7GFB0	Uncharacterized protein	101252677	-0.497270465	-0.422675387
238	A0A3Q7JHC1	HUN domain-containing protein	101258212	-0.662047206	-0.417562161
239	A0A3Q7H219	Uncharacterized protein	101257082	-0.341732422	-0.278049132
240	A0A3Q7HGX7	Uncharacterized protein		-0.614157745	-0.556640017
241	A0A3Q7GSV3	PAM2 domain-containing protein		-0.392959334	-0.305458725
242	P0CD47	NAD(P)H-quinone oxidoreductase subunit 2 B, chloroplastic	ndhB2	-0.713108887	-0.695774121
243	A0A3Q7I4X1	Protein kinase domain-containing protein		-0.653614451	-0.520809346
244	A0A3Q7IE68	ENT domain-containing protein		-1.163749163	-0.992243048
245	K4AU10	RNase III domain-containing protein		-1.475769171	-0.875751991
246	A0A3Q7HBN2	Uncharacterized protein	101260155	-0.550081983	-0.283334442
247	A0A3Q7J136	Uncharacterized protein	101249607	-0.321928095	-0.276934256
248	A0A3Q7EKQ5	Uncharacterized protein		-0.987358561	-0.979513544
249	A0A3Q7G9P1	Uncharacterized protein	101250596	-0.388139016	-0.348316034
250	A0A3Q7GH76	zf-C2HC5 domain-containing protein	101266012	-0.495076261	-0.396875531
251	A0A3Q7F047	Uncharacterized protein		-0.470577393	-0.385330106
252	A0A3Q7GYS8	Uncharacterized protein	101247228	-0.704392771	-0.461296864
253	A0A3Q7FPY4	Uncharacterized protein		-0.732744613	-0.674237334
254	A0A3Q7FWD7	Uncharacterized protein	101248168	-0.946508593	-0.641408363
255	A0A3Q7EJC9	Germin-like protein		-1.53572253	-0.741731337
256	A0A3Q7HTX4	Uncharacterized protein	101267334	-0.752840941	-0.716653942
257	A0A3Q7FA53	Methionine aminopeptidase	101246777	-0.395487093	-0.319702472

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
258	A0A3Q7H0M1	t-SNARE coiled-coil homology domain-containing protein	101257479	-0.463272179	-0.341639422
259	A0A3Q7IB41	Peroxin-5	101251822	-0.883076617	-0.849220048

Table S3. List of annotated tomato proteins that fully restored expression toward control level through down-regulation as result of the application of graphene to salty medium

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
1	A0A3Q7HBK4	Aconitate hydratase	101254008	0.852716321	-0.436744086
2	P38415	Linoleate 9S-lipoxygenase A	LOX1.1	1.491386644	-0.657516132
3	A0A3Q7I4W4	Uncharacterized protein	101252924	2.169961393	-1.175679208
4	Q8GZD8	Neutral leucine aminopeptidase preprotein	LapN	0.30236212	-0.363069291
5	A0A3Q7IWI5	Uncharacterized protein	101258989	2.03025221	-1.276344947
6	P30264	Catalase isozyme 1	CAT1	0.575557019	-0.596789758
7	A0A3Q7H652	Plasma membrane ATPase		0.519501613	-0.336899203
8	A0A3Q7I6G7	Uncharacterized protein		2.327925398	-1.277730316
9	A0A3Q7G087	Phosphoglucomutase (alpha-D-glucose-1,6-bisphosphate-dependent)	101267885	0.403908217	-0.284077345
10	A0A3Q7FEY7	Uncharacterized protein		1.987265586	-1.17888193
11	A0A3Q7INZ6	Uncharacterized protein		0.296574664	-0.282260511
12	P49297	Isocitrate lyase		1.739402288	-0.765847417
13	A0A3Q7HX95	Fructose-bisphosphate aldolase	101266063	0.704133151	-0.382780441
14	A0A3Q7F9B8	UDP-glucose 6-dehydrogenase		0.429535511	-0.330886571
15	Q5NE18	Formate dehydrogenase, mitochondrial	fdh	1.284985567	-0.674564233
16	A0A3Q7I7H2	Uncharacterized protein		1.984188424	-1.184565593
17	A0A3Q7I9A3	Protein kinase domain-containing protein		1.094710783	-0.646009476
18	A0A3Q7GMW1	Uncharacterized protein		0.362116381	-0.375735736
19	Q6IV07	UDP-arabinopyranose mutase	543938	0.443922939	-0.491800948
20	A0A3Q7GNF6	Serine hydroxymethyltransferase	101256090	0.412172934	-0.393167705
21	A0A3Q7JDN9	Uncharacterized protein		1.311460003	-0.744339789

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
22	A0A3Q7EN15	Lipoxygenase		0.616732514	-0.325387198
23	A0A3Q7FXP7	Glutamine synthetase	543756	1.652540693	-0.74663104
24	A0A3Q7GH43	Malate dehydrogenase		0.548468518	-0.406516023
25	A0A3Q7JEL1	ATP citrate synthase	101267503	0.451323345	-0.356902363
26	A0A3Q7G863	Serine hydroxymethyltransferase	101264818	0.656631848	-0.610232185
27	Q42896	Fructokinase-2	FRK2	0.492413484	-0.546976274
28	A0A3Q7EZ95	Malate dehydrogenase	101249428	0.749047025	-0.706453619
29	P93541	Glutamate dehydrogenase	GDH1	0.729506937	-0.536294053
30	A0A3Q7F3B5	Phospholipase A1		1.62320773	-0.630683565
31	A0A3Q7HD29	Aspartate aminotransferase	101244094	0.422354842	-0.515023928
32	A0A3Q7GRY0	Glutathione transferase		0.638578181	-0.472136495
33	P43282	S-adenosylmethionine synthase 3	SAM3	0.622996341	-0.306791326
34	A0A3Q7F639	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	101243849	0.487568329	-0.339649512
35	A0A3Q7J0Z8	Uncharacterized protein		0.686696336	-0.349952078
36	A0A3Q7I9H4	Bet_v_1 domain-containing protein		0.737609268	-0.67633637
37	A0A3Q7ENY7	Uncharacterized protein		0.404642756	-0.33747368
38	A0A3Q7FCM3	Uncharacterized protein	101264774	0.514037512	-0.355073047
39	A0A3Q7HT77	RmlD_sub_bind domain-containing protein	101249670	0.825070684	-0.615094553
40	A0A3Q7FQT2	Malate synthase	101267103	1.863222389	-1.034757987
41	A0A3Q7IBT3	Uncharacterized protein		0.695149917	-0.413650893
42	P21568	Peptidyl-prolyl cis-trans isomerase	CYP	0.513645363	-0.490416663
43	A0A3Q7EJ96	Uncharacterized protein		0.332885798	-0.294903753
44	A0A3Q7JAE3	Fructose-bisphosphatase	101262700	0.493706449	-0.355105885
45	A0A3Q7H001	Epimerase domain-containing protein		0.305413978	-0.298857637
46	A0A3Q7HE62	Uncharacterized protein	101249663	0.500787838	-0.314850358
47	A0A3Q7E9L3	Alanine transaminase		1.021632869	-0.65630636
48	A0A3Q7FHW8	Uncharacterized protein		0.463020157	-0.285985219
49	O65917	Shikimate dehydrogenase (NADP(+))	543548	0.381374313	-0.326033982

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
50	A0A3Q7IRF9	PKS_ER domain-containing protein		0.344639986	-0.351702833
51	A0A3Q7GBW7	Catalase		1.844295772	-1.044417823
52	A0A3Q7IRE7	PKS_ER domain-containing protein	101259903	1.754460056	-0.827402887
53	A0A3Q7EWQ3	Ferredoxin--NADP reductase, chloroplastic	101268044	0.572822545	-0.370270454
54	A0A3Q7HJU1	Uncharacterized protein		1.359552794	-0.535979361
55	A0A3Q7JE99	Serine hydroxymethyltransferase	101259725	0.316495476	-0.319858403
56	A0A3Q7IAU7	Uncharacterized protein		0.335619459	-0.473923735
57	A0A3Q7GZI0	Uncharacterized protein	101264635	1.907583276	-0.991046149
58	A0A3Q7FB83	Phospho-2-dehydro-3-deoxyheptonate aldolase		0.565224746	-0.528736885
59	A0A3Q7H3G4	Transmembrane 9 superfamily member		0.345977938	-0.367389525
60	A0A3Q7ERS1	Uncharacterized protein		1.163332922	-0.615611816
61	A0A3Q7H097	Phospho-2-dehydro-3-deoxyheptonate aldolase		0.326716185	-0.557920436
62	A0A3Q7H035	Fe2OG dioxygenase domain-containing protein	101244962	1.850603433	-1.372630205
63	A0A3Q7GC67	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	PFP-ALPHA	0.798389495	-0.276669226
64	A0A3Q7GNM9	Inositol-3-phosphate synthase	543809	0.97479222	-0.431147236
65	A0A3Q7HGQ5	Glutathione transferase		0.575259098	-0.435020589
66	A0A3Q7F688	Phosphoserine aminotransferase		0.36458276	-0.440410408
67	K4CVP2	Caffeoyl-CoA O-methyltransferase	101255734	0.354171334	-0.558411915
68	A0A3Q7I909	Uncharacterized protein		1.021390539	-0.431195306
69	A0A3Q7F5Y3	Uncharacterized protein		1.342579135	-0.983406663
70	A0A3Q7IDI1	Cysteine synthase	101253940	0.459073457	-0.423250244
71	A0A3Q7J1Y7	Fe2OG dioxygenase domain-containing protein		0.400888409	-0.389223821
72	A0A3Q7HXX4	Uncharacterized protein		0.57948378	-0.431395046
73	A0A3Q7EMV9	Uncharacterized protein	101262257	1.123123223	-0.487661132
74	A0A3Q7GDN7	Adenylate kinase	101264422	0.558113345	-0.535950443
75	A0A3Q7J2E4	Sulfate adenyllyltransferase		0.32826321	-0.588674871
76	A0A3Q7H255	Uncharacterized protein	101253501	0.263063536	-0.343065106
77	A0A3Q7EX61	Uncharacterized protein		0.864934077	-0.548308421

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
78	A0A3Q7F2Y7	GST C-terminal domain-containing protein		0.478816894	-0.446405866
79	A0A3Q7IGY7	Caffeoyl-CoA O-methyltransferase	101253032	0.729570725	-0.438678702
80	A0A3Q7G3R4	4-coumarate--CoA ligase	101251259	1.335031566	-0.516060044
81	A0A3Q7FF28	Methyltransferase	101247376	0.331365709	-0.270724891
82	A0A3Q7JBS2	Uncharacterized protein	101265520	0.870909146	-0.73884091
83	A0A3Q7FD22	Neutral ceramidase	101251446	0.296131129	-0.292180362
84	A0A3Q7ETL5	Uncharacterized protein	101251498	0.598320125	-0.268010616
85	A0A3Q7I392	Uncharacterized protein		0.768152109	-0.489100869
86	A0A3Q7F625	Catechol oxidase		0.824055149	-0.448932517
87	A0A3Q7J3L2	Transmembrane 9 superfamily member	101248549	0.425195969	-0.377821761
88	A0A3Q7IWC1	Uncharacterized protein		1.192984634	-0.82351825
89	A0A3Q7F2J4	Uncharacterized protein		0.709415132	-0.613179085
90	A0A3Q7FJD2	Acetolactate synthase	101247891	0.302169109	-0.327080186
91	A0A3Q7J565	NADPH-protochlorophyllide oxidoreductase	101248079	0.690199079	-0.354264408
92	A0A3Q7J325	Uncharacterized protein	101261488	0.380723289	-0.506595783
93	A0A3Q7IBI0	NADPH-protochlorophyllide oxidoreductase	101244717	0.730892986	-0.725164457
94	A0A3Q7IC52	Uncharacterized protein		0.547087486	-0.326346595
95	A0A3Q7HU54	Uncharacterized protein		1.188828643	-0.610796058
96	A0A3Q7I0E9	Glutathione transferase		0.734102504	-0.432552104
97	A0A3Q7HQE3	Aldehyde dehydrogenase	101262822	0.340327105	-0.342871621
98	A0A3Q7E9K7	Succinate--CoA ligase [ADP-forming] subunit alpha, mitochondrial	543860	0.291261442	-0.348297966
99	A0A3Q7I8W0	Aldo_ket_red domain-containing protein	104649444	0.770541043	-0.583846335
100	A0A3Q7J2X1	Malic enzyme		0.737374873	-0.315221358
101	A0A3Q7H5Z8	Glucose-1-phosphate adenylyltransferase	544033	0.402228058	-0.27436642
102	A0A3Q7G9H2	Uncharacterized protein	101251452	0.522654435	-0.498507263
103	A0A3Q7ESZ6	PB1 domain-containing protein	101252825	0.372011654	-0.395483456
104	A0A3Q7J4V1	Citrate synthase	101260902	0.463106041	-0.419471855
105	A0A3Q7FBN4	Caffeoyl-CoA O-methyltransferase		1.22189577	-0.662806229

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
106	A0A3Q7IQY4	Uncharacterized protein		0.552708806	-0.265186741
107	A0A3Q7HWC3	Xyloglucan endotransglucosylase/hydrolase	101259187	0.681793372	-0.293208075
108	A0A3Q7F8U4	PEROXIDASE_4 domain-containing protein	101264583	0.805851432	-0.629627607
109	A0A3Q7FUI5	Uncharacterized protein		0.927812189	-0.431667559
110	A0A3Q7G3V8	Uncharacterized protein		0.44433481	-0.396736265
111	A0A3Q7EHP2	Peptidase A1 domain-containing protein	543853	1.161557885	-0.328201359
112	A0A3Q7H4T5	Aldedh domain-containing protein	101254485	0.309560743	-0.456704245
113	A0A3Q7FGU5	Uncharacterized protein	101248647	0.615903314	-0.482133854
114	A0A3Q7I933	Uncharacterized protein	101262752	1.262078506	-1.025322767
115	A0A3Q7HE60	Acetolactate synthase		0.714267478	-0.500354721
116	A0A3Q7G616	Uncharacterized protein		0.278464937	-0.443972114
117	A0A3Q7FYZ1	Protein kinase domain-containing protein		0.970396833	-0.543345819
118	A0A3Q7FZS4	Transmembrane 9 superfamily member	101265912	0.386396235	-0.348595679
119	A0A3Q7GB48	Thioredoxin domain-containing protein	101248480	0.44830898	-0.285768318
120	A0A3Q7HW20	Glutathione peroxidase		0.809591589	-0.608810892
121	A0A3Q7EI07	Glutathione transferase		1.015018343	-0.333635069
122	A0A3Q7EMU1	NAD(P)H dehydrogenase (quinone)	101265773	0.634881227	-0.717616904
123	A0A3Q7HAH2	Glucose-6-phosphate 1-dehydrogenase	101253589	1.148369258	-0.636632115
124	A0A3Q7GUF9	Uncharacterized protein	101266530	0.800010273	-0.43444242
125	A0A3Q7H546	GLTP domain-containing protein		0.367663693	-0.301931341
126	A0A3Q7IMI8	Uncharacterized protein		0.566729331	-0.330650394
127	A0A3Q7HG73	Uncharacterized protein		1.270759553	-0.613455695
128	A0A3Q7GYZ8	Uridine/cytidine kinase		0.469246329	-0.358203027
129	A0A3Q7GYL5	Uncharacterized protein	101248784	0.429111675	-0.433968887
130	A0A3Q7FRV5	Proline--tRNA ligase		0.390277932	-0.27636302
131	A0A3Q7HV22	Beta-ketoacyl-[acyl-carrier-protein] synthase I	101251311	0.544614025	-0.440554116
132	A0A3Q7HVG4	Peroxidase	101251503	0.785948854	-0.495017934
133	A0A3Q7FQ67	SGNH_hydro domain-containing protein	101247090	0.614834409	-0.423036683
134	A0A3Q7J1U2	Uncharacterized protein	101246214	1.239247512	-0.69313399

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
135	A0A3Q7JVZ9	Glycosyltransferase	101257246	0.626238394	-0.329883709
136	A0A3Q7IJG3	Uncharacterized protein	101262367	0.362424823	-0.385473295
137	Q941P9	Non-symbiotic hemoglobin 2	HB2	0.93095662	-0.464118609
138	A0A3Q7IBV7	Peptidase A1 domain-containing protein	101264466	0.299495399	-0.293251093
139	A0A3Q7FC86	Peroxidase	101267754	0.790501569	-0.287473515
140	E1AZA3	Late embryogenesis abundant protein	100750252	1.747796701	-0.787288839
141	A0A3Q7H3G1	Uncharacterized protein	101246836	0.999484864	-0.704104003
142	A0A3Q7I5Y6	Uncharacterized protein		1.913661173	-0.843885379
143	A0A3Q7HMU2	AAA domain-containing protein	101257288	0.475862346	-0.267274272
144	A0A3Q7IQX9	ATP-dependent 6-phosphofructokinase	101268243	0.538469915	-0.364797244
145	A0A3Q7H8H1	Uncharacterized protein		0.430275253	-0.274324837
146	A0A3Q7FTL7	Uncharacterized protein		0.787618744	-0.341386219
147	A0A3Q7HYP9	Glutathione transferase		0.893182344	-0.516591859
148	A0A3Q7HIN3	Uncharacterized protein	101260347	0.945589433	-0.451225861
149	A0A3Q7GXQ4	Uncharacterized protein		0.469334282	-0.406880944
150	A0A3Q7I9Q3	4-hydroxy-4-methyl-2-oxoglutarate aldolase		0.946407994	-0.401031174
151	A0A3Q7J509	Glutathione transferase	101265897	0.901250626	-0.443492494
152	A0A3Q7I801	Bet_v_1 domain-containing protein	101246666	1.2241656	-1.067348451
153	A0A3Q7IGH7	RRM domain-containing protein		0.792878749	-0.794692767
154	A0A3Q7HUR4	GRAM domain-containing protein	101259275	0.355679508	-0.425851774
155	A0A3Q7G570	UDP-arabinopyranose mutase	101265535	0.398043505	-0.292486178
156	A0A3Q7HWL4	Phenylalanine ammonia-lyase		0.396407818	-0.283384086
157	A0A3Q7ERB9	Fe2OG dioxygenase domain-containing protein		1.776113956	-0.996949981
158	A0A3Q7ELJ4	Uncharacterized protein	101249210	0.516871679	-0.461185022
159	A0A3Q7JA54	Ribosomal_L28e domain-containing protein		0.459528547	-0.279775643
160	A0A3Q7G9S2	Peptidylprolyl isomerase		0.264545102	-0.335067828
161	A0A3Q7HYR0	Usp domain-containing protein	101264358	0.58047591	-0.372745359
162	A0A3Q7FVX5	Uncharacterized protein	101261307	0.369309357	-0.383758985
163	A0A3Q7ICC4	Uncharacterized protein	101252232	1.348529149	-0.657333667

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
164	A0A3Q7FRG4	Uncharacterized protein		1.006301109	-0.649693479
165	A0A3Q7GVD6	Peroxidase	101261825	0.671154299	-0.340733254
166	A0A3Q7HXK1	Arf-GAP domain-containing protein	101251611	0.57874361	-0.38467146
167	A0A3Q7GPN6	V-type proton ATPase subunit G	101254490	0.719244598	-0.382888532
168	A0A3Q7GLX5	Uncharacterized protein	101248580	1.593410579	-0.847084051
169	K4BEV4	Tonoplast intrinsic protein 32	TIP3;2	0.705564211	-0.465773146
170	A0A3Q7IIR5	Non-specific lipid-transfer protein		1.310825189	-0.70507373
171	A0A3Q7HNQ7	PNP_UDP_1 domain-containing protein		0.420259664	-0.44109966
172	A0A3Q7IM27	DnaJ_C domain-containing protein		0.270522118	-0.312752962
173	A0A3Q7HTG9	Phosphomevalonate kinase	101252616	0.482892791	-0.290145815
174	A0A3Q7GZP1	Uncharacterized protein		1.209912424	-0.814470754
175	A0A3Q7EYI3	Fe2OG dioxygenase domain-containing protein		0.965408632	-0.623363866
176	A0A3Q7FR75	NADH:ubiquinone reductase (non-electrogenic)	101258913	0.420027152	-0.37305485
177	A0A3Q7HL14	Uncharacterized protein	101253509	0.311587003	-0.278336696
178	Q2VY16	Peptidylprolyl isomerase	CIP3	0.317412614	-0.307023656
179	A0A3Q7G727	Uncharacterized protein	101261114	1.418221984	-0.927287422
180	A0A3Q7JEN7	Uncharacterized protein	101252471	0.525869704	-0.304602957
181	K4CRI8	Glutathione transferase	101265268	0.997871817	-0.404897727
182	A0A3Q7HJ18	Uncharacterized protein	101249389	1.171756902	-0.812996476
183	A0A3Q7JX81	Glycosyltransferase	101248655	0.709779775	-0.383495705
184	A0A3Q7EEW3	Uncharacterized protein	101263745	0.733048068	-0.469857361
185	A0A3Q7F545	Thioredoxin domain-containing protein		0.718237592	-0.741839034
186	A0A3Q7I790	Glutathione transferase		1.541941522	-0.453030453
187	A0A3Q7FFB2	Uncharacterized protein		0.297667113	-0.350854005
188	H1AC31	Alpha-L-arabinofuranosidase/beta-D-xylosidase	SlArf	0.750136431	-0.395367099
189	A0A3Q7G6N7	SCP2 domain-containing protein	101254480	0.944334923	-0.792756399
190	A0A3Q7FF64	Uncharacterized protein	101246315	2.008052742	-1.626638335
191	A0A3Q7FB09	Uncharacterized protein		0.442653422	-0.677980221
192	A0A3Q7HC36	J domain-containing protein		0.351404851	-0.367872505

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
193	A0A3Q7GM59	RRM domain-containing protein		0.595299926	-0.663220454
194	A0A3Q7HG09	Pribosyltran domain-containing protein	101247538	0.382828868	-0.263933416
195	A0A3Q7GWE4	Serine/threonine-protein phosphatase	101249463	0.339342146	-0.369528508
196	A0A3Q7HYN1	Glutathione transferase		2.399788438	-0.795309501
197	A0A3Q7GZJ6	Inositol-tetrakisphosphate 1-kinase	101262819	0.9663497	-0.406811526
198	A0A3Q7JYM5	6,7-dimethyl-8-ribityllumazine synthase		0.37707523	-0.29383934
199	A0A3Q7J5C5	Uncharacterized protein	101253864	0.430141181	-0.356706033
200	A0A3Q7J1R5	Fe2OG dioxygenase domain-containing protein	101268645	1.362730558	-1.093379402
201	Q152U8	Multiprotein bridging factor 1b	MBF1	0.56210429	-0.457602061
202	A0A3Q7H320	NAD(P)-bd_dom domain-containing protein	101257677	0.32056289	-0.32484089
203	A0A3Q7EJP1	Non-specific lipid-transfer protein	101259287	2.641104562	-2.145878932
204	A0A3Q7H1P2	Uncharacterized protein		0.455817349	-0.378178336
205	A0A3Q7I9E2	Uncharacterized protein		1.068816825	-0.27084641
206	A0A3Q7G0B7	Fe2OG dioxygenase domain-containing protein		0.394211465	-0.635142111
207	A0A3Q7JGW9	Uncharacterized protein		1.059296555	-0.990945586
208	A0A3Q7HSP3	Uncharacterized protein	101268303	1.885842651	-1.04789276
209	A0A3Q7FXQ4	Bet_v_1 domain-containing protein	101264919	1.116624153	-0.565604963
210	Q9FVH0	Expansin	EXPA8	1.146542893	-0.45715685
211	A0A3Q7HEV4	Arf-GAP domain-containing protein		0.320506813	-0.325608476
212	A0A3Q7F5E7	Glutathione transferase	101265881	0.466632625	-0.305488829
213	A0A3Q7IKQ0	Uncharacterized protein		1.143498211	-0.766534342
214	K4BCJ1	Ribosomal_TL5_C domain-containing protein	101250850	0.290647561	-0.374615129
215	A0A3Q7G2J1	DUF4057 domain-containing protein	101260128	0.861049332	-0.448735387
216	A0A3Q7FEL6	Peroxidase	101258529	0.601304979	-0.55955092
217	A0A3Q7F0G4	DIOX_N domain-containing protein		0.882161111	-0.744040717
218	A0A3Q7I749	Uncharacterized protein		0.362562449	-0.395860274
219	A0A3Q7EII7	Non-specific lipid-transfer protein	101265675	0.629375916	-0.405634792
220	A0A3Q7J4A1	Uncharacterized protein	101252059	1.074668707	-0.67961974
221	A0A3Q7GMX1	Uncharacterized protein		0.839963708	-0.628146726

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
222	K4D5L3	Uncharacterized protein	101244731	3.161564941	-1.597177245
223	A0A3Q7I581	Abhydrolase_3 domain-containing protein	101251700	0.430360274	-0.498700873
224	A0A3Q7H037	4-coumarate--CoA ligase		0.444022882	-0.590636144
225	A0A3Q7F190	NTF2 domain-containing protein		0.317372752	-0.349949528
226	A0A3Q7GZA3	Uncharacterized protein	101248491	0.436115746	-0.538682703
227	A0A3Q7EGN4	Peroxidase		0.884015005	-0.369417218
228	A0A3Q7FKF3	Eukaryotic translation initiation factor 5B		1.926675399	-0.969269583
229	A0A3Q7JB49	Uncharacterized protein		0.845605793	-0.457177982
230	A0A3Q7G2E7	Acyl-coenzyme A oxidase	101265227	0.768247019	-0.483464389
231	A0A3Q7GV32	Uncharacterized protein	101252190	1.698915108	-1.388123183
232	A0A3Q7J0V5	LigB domain-containing protein		0.36865609	-0.38088065
233	A0A3Q7F8H5	Epimerase domain-containing protein		0.595797431	-0.31374837
234	A0A3Q7ER86	Uncharacterized protein	101259966	0.57110395	-0.483756459
235	A0A3Q7J4K1	Glutathione transferase		1.289666913	-0.695989374
236	A0A3Q7IBL8	RRM domain-containing protein	101264445	0.525425056	-0.471577983
237	A0A3Q7F2L3	Uncharacterized protein		1.394774445	-0.963872047
238	O22616	Ornithine decarboxylase	ODC	0.406892957	-0.634819601
239	Q7X7I9	Omega-3 fatty acid desaturase	544203	0.619128622	-0.59167569
240	A0A3Q7H4M5	Uncharacterized protein		0.380159083	-0.263945678
241	A0A3Q7GNH0	Glycosyltransferase		0.810254813	-0.286883819
242	A0A3Q7JBE7	Uncharacterized protein		1.114839097	-0.406097677
243	A0A3Q7G7I3	PfkB domain-containing protein	101262108	0.284118622	-0.309564121
244	A0A3Q7GCR5	Uncharacterized protein	101257641	0.827271333	-0.31454485
245	A0A3Q7GP72	Uncharacterized protein		0.367016869	-0.292299731
246	A0A3Q7H4Q8	dCTP pyrophosphatase 1	101255503	0.498690771	-0.341297346
247	A0A3Q7H3R3	Uncharacterized protein	101255604	0.978633394	-0.367441123
248	A0A3Q7HYF8	Uncharacterized protein		0.46310141	-0.654142528
249	A0A3Q7GP20	Eukaryotic translation initiation factor 3 subunit F		0.905880401	-0.531222614
250	A0A3Q7HAL3	Uncharacterized protein	101262829	0.44366451	-0.420045229

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
251	A0A3Q7I0N7	Prephenate/arogenate dehydrogenase domain-containing protein	101259263	0.388248828	-0.310434104
252	Q9FT20	Glutathione transferase	543816	1.12688868	-0.59193086
253	A0A3Q7GWF4	Uncharacterized protein	101250512	0.512160195	-0.289894724
254	A0A3Q7GQG1	4-coumarate--CoA ligase	101265548	1.5033587	-0.721519652
255	A0A3Q7FXZ8	Protein kinase domain-containing protein		0.370675129	-0.377687432
256	A0A3Q7JD91	MaoC-like domain-containing protein		0.482528403	-0.359430611
257	A0A3Q7H4X7	Uncharacterized protein		0.904319998	-0.451164927
258	A0A3Q7EUT2	Flavin-containing monooxygenase	101254042	0.597470327	-0.348507438
259	A0A3Q7I8T9	Cysteine proteinase inhibitor	101243640	1.362961483	-0.551849408
260	A0A3Q7IQ38	Uncharacterized protein	101261142	0.347073237	-0.337998061
261	O48540	Mannan endo-1,4-beta-mannosidase 1	MAN1	1.631929867	-1.125463591
262	A0A3Q7I723	Uncharacterized protein	101244902	0.439788446	-0.406147738
263	A0A3Q7ETI0	Uncharacterized protein	104645411	0.746574309	-0.507155963
264	A0A3Q7EX00	PKS_ER domain-containing protein	101245999	0.599458833	-0.298507034
265	A0A3Q7HW69	Adenylate kinase		0.569013939	-0.377887307
266	A0A3Q7HPH1	Aldedh domain-containing protein	101257095	0.753985119	-0.620884713
267	A0A3Q7FBJ8	Uncharacterized protein		0.988886077	-0.50389562
268	A0A3Q7H7J8	Knot1 domain-containing protein		2.378303006	-1.386387822
269	A0A3Q7IHX1	Methyltransferase	101243835	0.591574445	-0.470456379
270	A0A3Q7ES43	40S ribosomal protein S27		0.637595721	-0.364489794
271	A0A3Q7EI52	DLH domain-containing protein		0.855816411	-0.367918137
272	A0A3Q7IL86	Uncharacterized protein		3.085373842	-1.580258484
273	A0A3Q7FV47	Uncharacterized protein	101251569	0.77039372	-0.499576099
274	A0A3Q7ILD8	Uncharacterized protein		1.162646966	-0.822297974
275	A0A3Q7IPM1	Knot1 domain-containing protein		1.422737402	-0.721909667
276	A0A3Q7GZE4	Uncharacterized protein	101245261	1.166786993	-0.727901186
277	A0A3Q7GXX9	J domain-containing protein	101248585	0.470825995	-0.404652783
278	A0A3Q7I5C0	MFS domain-containing protein		0.324994398	-0.421544269

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
279	A0A3Q7G6T1	SHSP domain-containing protein	101261225	1.809985354	-0.94698327
280	A0A3Q7FS42	Oleosin	101263398	1.714245518	-1.08858265
281	A0A3Q7FFN0	Caffeoyl-CoA O-methyltransferase	101266196	0.830816081	-0.435542246
282	K4B3K5	Uncharacterized protein	101259487	1.516809955	-0.350284426
283	K4B6N3	Peptidase A1 domain-containing protein	101268065	0.90520776	-0.66823312
284	A0A3Q7H2A8	Rhodanese domain-containing protein		0.440048031	-0.429387574
285	A0A3Q7I7D6	Complex1_LYR_dom domain-containing protein	101246960	0.442419181	-0.46124367
286	A0A3Q7FMU9	Uncharacterized protein	101262295	2.315888546	-1.56691918
287	A0A3Q7GA04	MFS domain-containing protein		0.392281635	-0.318306105
288	A0A3Q7IPR0	Uncharacterized protein	101250470	0.956785328	-0.519244425
289	A0A3Q7J7W1	Protein kinase domain-containing protein	101268362	0.282457052	-0.269469817
290	A0A3Q7GXI4	Oleosin	101249653	1.789450124	-1.219557466
291	A0A3Q7GPX9	4-coumarate--CoA ligase		1.053242979	-0.398557097
292	A0A3Q7FMP4	Inositol-tetrakisphosphate 1-kinase	101265624	0.357938631	-0.35543757
293	A0A3Q7FMR9	PKS_ER domain-containing protein	101249426	0.716042644	-0.371825432
294	A0A3Q7JE72	Cytochrome b5 heme-binding domain-containing protein		0.845757426	-0.424345631
295	A0A3Q7ET70	Fe2OG dioxygenase domain-containing protein	101253836	1.184484604	-0.532024218
296	A0A3Q7IKK6	Uncharacterized protein	101250176	1.799456343	-1.003638577
297	A0A3Q7FLL6	Wax2_C domain-containing protein		0.711975467	-0.522813575
298	A0A3Q7IE53	Beta-ketoacyl-[acyl-carrier-protein] synthase III	101244208	0.530951083	-0.334653807
299	A0A3Q7FV90	Uncharacterized protein	101256744	1.519938441	-0.699321133
300	A0A3Q7GW90	GHMP_kinases_N domain-containing protein	101256682	0.452694988	-0.40304041
301	A0A3Q7GPR2	Uncharacterized protein	101252779	0.469413641	-0.395678154
302	P38416	Linoleate 9S-lipoxygenase B	LOX1.2	1.124953226	-1.147068388
303	A0A3Q7F7X3	AAI domain-containing protein		1.531410345	-1.136475467
304	A0A3Q7F4J8	4HBT domain-containing protein	101245223	0.509904295	-0.467441658
305	A0A3Q7E8V3	1,3-beta-glucan synthase	101263837	1.364943466	-1.166157188
306	A9QPL5	Sterol 22-desaturase	SD1	0.529028152	-0.462764158
307	A0A3Q7F3J3	Uncharacterized protein		0.544191092	-0.283092524

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
308	A0A3Q7G4X6	UBC core domain-containing protein		0.596539662	-0.318579996
309	A0A3Q7JCI1	Branched-chain-amino-acid aminotransferase	101253875	0.868674323	-0.750054739
310	A0A3Q7I642	Imidazoleglycerol-phosphate dehydratase	101253226	0.325418549	-0.415003816
311	A0A3Q7G0R2	Lipase	101250773	0.863709395	-0.663305003
312	A0A3Q7FPE1	Uncharacterized protein		0.372107587	-0.413622399
313	A0A3Q7F9Y0	Uncharacterized protein	101265497	1.574970729	-1.034575227
314	A0A3Q7H729	Glycosyltransferase	101254400	1.535799707	-0.530791405
315	A0A3Q7HMZ6	Ferrochelataase	101263738	0.380347589	-0.292000473
316	A0A3Q7H5E8	Knot1 domain-containing protein	101244389	0.532120898	-0.560405396
317	O04161	Ammonium transporter 1 member 2	AMT1-2	1.441739921	-0.264962216
318	A0A3Q7JBA6	Uncharacterized protein	101254980	0.813782839	-0.555430335
319	A0A3Q7HFJ3	SUI1 domain-containing protein	101247541	0.560536798	-0.46505874
320	K4CCH1	Uncharacterized protein		1.775211075	-0.440308496
321	A0A3Q7HPE0	Uncharacterized protein	101255319	0.600493653	-0.359694465
322	A0A3Q7HZA7	AB hydrolase-1 domain-containing protein	101260564	1.300981156	-0.921581106
323	Q00747	Protein LE25	LE25	0.920252996	-0.951981227
324	A0A3Q7J1E2	Uncharacterized protein	101253556	1.329150017	-0.699224906
325	A0A3Q7F6I3	Uncharacterized protein		0.490548952	-0.348955082
326	A0A3Q7IWM7	Uncharacterized protein	101255263	0.819916366	-0.918131175
327	A0A3Q7IJQ6	GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase	101250940	0.454508896	-0.340138435
328	A0A3Q7IQA1	[RNA-polymerase]-subunit kinase	101253215	0.699563499	-0.477796894
329	A0A3Q7HDG6	Uncharacterized protein	101255712	0.44503224	-0.347761394
330	A0A3Q7GT96	Acyl carrier protein		0.572918741	-0.374145728
331	A0A3Q7HIZ5	PABS domain-containing protein	101254014	1.573991383	-1.480640907
332	K4CHA2	AAI domain-containing protein	101256608	1.349550791	-0.938710896
333	A0A3Q7HHE8	Hydrolase_4 domain-containing protein	101244873	1.043019324	-0.289189676
334	A0A3Q7HTN8	Uncharacterized protein	101244216	0.53435148	-0.415668164
335	A0A3Q7H7C6	Phytocyanin domain-containing protein		1.155693616	-0.586154811

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
336	A0A3Q7IIQ1	Uncharacterized protein	101268729	0.479587738	-0.454668876
337	A0A3Q7H2A1	RRM domain-containing protein		1.391976115	-0.51225437
338	A0A3Q7GWI7	Uncharacterized protein		1.274086906	-0.903399499
339	Q9SEE4	Pirin-like protein		0.57901078	-0.786581452
340	A0A3Q7FMB3	Glycosyltransferase	101259920	0.264261262	-0.301920547
341	A0A3Q7FJB6	Non-specific serine/threonine protein kinase		0.82487583	-0.264608756
342	A0A3Q7JE52	Glutathione transferase	101266706	0.998929354	-0.362111134
343	A0A3Q7I8B8	4F5 domain-containing protein		0.421229228	-0.436554201
344	A0A3Q7FW04	Protein DETOXIFICATION	101268373	0.499874094	-0.397582316
345	A0A3Q7I9R2	Peroxidase	101244682	1.009042675	-0.825365017
346	A0A3Q7JEB1	Uncharacterized protein		0.574572243	-0.284328136
347	A0A3Q7GCL5	Gamma-glutamylcyclotransferase family protein	101245930	1.0690504	-0.344428474
348	A0A3Q7GUK8	Fe2OG dioxygenase domain-containing protein	101266529	0.543681388	-0.32155087
349	A0A3Q7HYT3	Uncharacterized protein		0.377046183	-0.355353113
350	A0A3Q7HG03	Uncharacterized protein		0.544191092	-0.656604611
351	A0A3Q7FDZ5	HMA domain-containing protein	101263877	0.811161121	-0.479008355
352	A0A3Q7IS22	WAT1-related protein	101247182	0.475292747	-0.477358166
353	A0A3Q7ITX2	Uncharacterized protein	101264147	2.411692309	-1.530939309
354	A0A3Q7GVA3	Uncharacterized protein	101243796	0.871995369	-0.527339967
355	A0A3Q7J9V3	Glutamine synthetase		0.469415532	-0.384104215
356	A0A3Q7J3C5	Glycosyltransferase	101247699	0.445414218	-0.464001829
357	A0A3Q7GC64	Thioredoxin domain-containing protein		1.213384474	-0.758839329
358	A0A3Q7G0M3	Uncharacterized protein	101260924	0.860303802	-0.49586228
359	A0A3Q7IA44	RRM domain-containing protein		0.613592764	-0.535407999
360	A0A3Q7GXE5	Uncharacterized protein	101263037	0.877150982	-0.470936842

Table S4. List of annotated tomato proteins that partially restored expression toward control level through down-regulation as a result of application of graphene to salty medium

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
1	A0A3Q7G465	GFO_IDH_MocA domain-containing protein	101260931	0.422720106	0.408963387
2	A0A3Q7IS88	PEROXIDASE_4 domain-containing protein	101258987	0.538086417	0.265730017
3	A0A3Q7ES82	Uncharacterized protein		0.342094792	0.334937835
4	A0A3Q7G8Y1	Uncharacterized protein	101246709	0.333756139	0.31043646
5	A0A3Q7IIZ3	SHSP domain-containing protein	543572	1.097038286	0.324788379
6	A0A3Q7IQ51	Carboxypeptidase		0.475026281	0.423336904
7	A0A3Q7I3V5	R3H-assoc domain-containing protein		0.79158415	0.421435311
8	O80432	Mitochondrial small heat shock protein	LEMTSHP	1.218490349	0.771612737
9	A0A3Q7EUI8	Uncharacterized protein		0.464190321	0.444224986
10	A0A3Q7EGR7	Peroxidase		0.634387193	0.285368216
11	A0A3Q7HX13	Uncharacterized protein	101265270	0.976638268	0.445957263
12	A0A3Q7HDP2	Transmembrane 9 superfamily member	101253394	0.557983238	0.407715957
13	A0A3Q7H4B3	Uncharacterized protein	101268402	0.460574229	0.317989727
14	A0A3Q7G0C5	Uncharacterized protein		0.435543418	0.337099382
15	A0A3Q7EHN4	Peptidase A1 domain-containing protein	101254728	1.137565046	0.441503496
16	A0A3Q7JR13	Peroxidase	101265614	0.504321143	0.266358855
17	A0A3Q7FUL5	SHSP domain-containing protein	101248279	0.768126526	0.65980749
18	A0A3Q7FZ69	Bet_v_1 domain-containing protein		0.590579693	0.556441819
19	A0A3Q7GAW6	Uncharacterized protein	778360	0.568169843	0.309056193
20	A0A3Q7IMX7	Gln-synt_C domain-containing protein		0.559705967	0.293133584
21	A0A3Q7JAN2	Protein kinase domain-containing protein	101251660	0.285185874	0.276624973
22	A0A3Q7I626	Uncharacterized protein	101255240	0.376156357	0.312287502
23	A0A3Q7F8F8	TOG domain-containing protein		0.384331075	0.366061667
24	A0A3Q7F4E3	Uncharacterized protein	101253046	0.53977998	0.30418598
25	A0A3Q7G0B1	Uncharacterized protein	101268630	0.449777212	0.433333627
26	A0A3Q7HBK4	Aconitate hydratase	101254008	0.852716321	0.415972236

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
27	P38415	Linoleate 9S-lipoxygenase A	LOX1.1	1.491386644	0.833870511
28	A0A3Q7I4W4	Uncharacterized protein	101252924	2.169961393	0.994282185
29	A0A3Q7IWI5	Uncharacterized protein	101258989	2.03025221	0.753907263
30	A0A3Q7ITD1	Pyr_redox_2 domain-containing protein	101264360	0.408865496	0.313554688
31	A0A3Q7IQV2	Methylenetetrahydrofolate reductase	101255258	0.514963953	0.270849858
32	A0A3Q7I6G7	Uncharacterized protein		2.327925398	1.050195082
33	A0A3Q7I9U4	Adenosylhomocysteinase	544304	0.690675548	0.533157524
34	Q8GZP5	Allene oxide synthase 3	AOS3	1.29680012	0.578290556
35	A0A3Q7FEY7	Uncharacterized protein		1.987265586	0.808383656
36	A0A3Q7J4F0	Adenosylhomocysteinase		0.781447089	0.656526097
37	A0A3Q7F7C4	Peroxidase		1.609379771	1.355553273
38	P49297	Isocitrate lyase		1.739402288	0.97355487
39	A0A3Q7HX95	Fructose-bisphosphate aldolase	101266063	0.704133151	0.32135271
40	A0A3Q7J0Z4	Elongation factor 1-alpha	101264700	0.738518484	0.674059715
41	Q5NE18	Formate dehydrogenase, mitochondrial	fdh	1.284985567	0.610421334
42	A0A3Q7I7H2	Uncharacterized protein		1.984188424	0.799622831
43	A0A3Q7I9A3	Protein kinase domain-containing protein		1.094710783	0.448701308
44	A0A3Q7JDN9	Uncharacterized protein		1.311460003	0.567120214
45	A0A3Q7EN15	Lipoxygenase		0.616732514	0.291345316
46	A0A3Q7FXP7	Glutamine synthetase	543756	1.652540693	0.905909653
47	P43281	S-adenosylmethionine synthase 2	SAM2	0.732763027	0.676133585
48	A0A3Q7FFR5	Peroxidase	101265511	0.85937735	0.584387149
49	A0A3Q7GX91	Mitogen-activated protein kinase		0.639424755	0.574374945
50	A0A3Q7F3B5	Phospholipase A1		1.62320773	0.992524164
51	A0A3Q7G0X6	Sulfate adenylyltransferase	101256557	0.615246499	0.426322643
52	P43282	S-adenosylmethionine synthase 3	SAM3	0.622996341	0.316205015
53	A0A3Q7JDK3	Uncharacterized protein	101266108	0.643065455	0.587841722
54	A0A3Q7H441	Acetyltransferase component of pyruvate dehydrogenase complex	101244498	0.382519361	0.304665696

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
55	A0A3Q7J0Z8	Uncharacterized protein		0.686696336	0.336744258
56	A0A3Q7IL38	Eukaryotic translation initiation factor 3 subunit L		0.596018998	0.528868169
57	A0A3Q7GF14	6-phosphogluconate dehydrogenase, decarboxylating		0.404282191	0.387112338
58	A0A3Q7FJZ3	Uncharacterized protein	101258617	0.34410685	0.277646789
59	A0A3Q7FU69	T-complex protein 1 subunit delta	101246121	0.422307932	0.267451562
60	A0A3Q7JG33	Uncharacterized protein		0.460251421	0.289091379
61	A0A3Q7FQT2	Malate synthase	101267103	1.863222389	0.828464403
62	A0A3Q7IBT3	Uncharacterized protein		0.695149917	0.281499023
63	A0A3Q7F8Z7	Uncharacterized protein		0.417708287	0.31225636
64	C6K2K9	GDP-mannose 3,5-epimerase	GME1	0.457860324	0.419761352
65	A0A3Q7E9L3	Alanine transaminase		1.021632869	0.365326509
66	A0A3Q7GBW7	Catalase		1.844295772	0.799877949
67	A0A3Q7IH89	Uncharacterized protein	778326	0.43136312	0.281496897
68	A0A3Q7JDG4	Uncharacterized protein		0.932470556	0.846187398
69	A0A3Q7IRE7	PKS_ER domain-containing protein	101259903	1.754460056	0.927057169
70	A0A3Q7IM48	Protein-serine/threonine phosphatase		1.072898654	1.060142575
71	A0A3Q7HJU1	Uncharacterized protein		1.359552794	0.823573433
72	A0A3Q7FVS7	Uncharacterized protein	101265626	0.372530104	0.324861002
73	A0A3Q7GZI0	Uncharacterized protein	101264635	1.907583276	0.916537126
74	A0A3Q7HST6	Uncharacterized protein		0.616711108	0.361283492
75	A0A3Q7ERS1	Uncharacterized protein		1.163332922	0.547721106
76	A0A3Q7H035	Fe2OG dioxygenase domain-containing protein	101244962	1.850603433	0.477973228
77	A0A3Q7GC67	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	PFP-ALPHA	0.798389495	0.521720269
78	A0A3Q7GNM9	Inositol-3-phosphate synthase	543809	0.97479222	0.543644984
79	A0A3Q7G067	Methyltransf_11 domain-containing protein	101256176	0.770511991	0.496071562
80	A0A3Q7G0C7	Uncharacterized protein	101245049	0.700316305	0.534001655
81	A0A3Q7F171	Pept_C1 domain-containing protein		0.694955878	0.458738125
82	A0A3Q7G4Y3	Uncharacterized protein		0.449238112	0.395176162

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
83	A0A3Q7I909	Uncharacterized protein		1.021390539	0.590195233
84	A0A3Q7F5Y3	Uncharacterized protein		1.342579135	0.359172471
85	A0A3Q7IAA7	Glutathione transferase		0.671466086	0.441339608
86	A0A3Q7EMV9	Uncharacterized protein	101262257	1.123123223	0.635462091
87	A0A3Q7EX61	Uncharacterized protein		0.864934077	0.316625656
88	A0A3Q7IGY7	Caffeoyl-CoA O-methyltransferase	101253032	0.729570725	0.290892023
89	A0A3Q7G3R4	4-coumarate--CoA ligase	101251259	1.335031566	0.818971521
90	A0A3Q7IQE6	Acetohydroxy-acid synthase small subunit		0.425394704	0.280152309
91	A0A3Q7ETL5	Uncharacterized protein	101251498	0.598320125	0.330309509
92	A0A3Q7I392	Uncharacterized protein		0.768152109	0.27905124
93	A0A3Q7FXM7	Endo-1,3(4)-beta-glucanase		0.676585351	0.560079674
94	A0A3Q7F625	Catechol oxidase		0.824055149	0.375122632
95	A0A3Q7J565	NADPH-protochlorophyllide oxidoreductase	101248079	0.690199079	0.335934672
96	A0A3Q7JE58	Lysine--tRNA ligase		1.026583709	0.355128832
97	A0A3Q7EMP0	Cysteine synthase		0.605862738	0.398087144
98	A0A3Q7EN83	Uncharacterized protein		0.692565785	0.447093915
99	A0A3Q7JRU9	Profilin		0.360854997	0.348737788
100	A0A3Q7HU54	Uncharacterized protein		1.188828643	0.578032585
101	A0A3Q7I0E9	Glutathione transferase		0.734102504	0.301550399
102	A0A3Q7IPM4	Superoxide dismutase copper chaperone	544169	0.316135634	0.27667914
103	A0A3Q7HFZ1	Proteasome subunit alpha type	101247839	0.439362337	0.379394425
104	Q6J1L7	Mannose-1-phosphate guanylyltransferase	GMP	0.560677243	0.456227442
105	A0A3Q7J2X1	Malic enzyme		0.737374873	0.422153516
106	A0A3Q7H063	Uncharacterized protein	101266947	0.444642852	0.403617873
107	A0A3Q7FBN4	Caffeoyl-CoA O-methyltransferase		1.22189577	0.559089541
108	A0A3Q7IQY4	Uncharacterized protein		0.552708806	0.287522065
109	Q38JE1	Temperature-induced lipocalin	TIL	0.338741329	0.316853577
110	A0A3Q7IJE0	Peroxidase		0.705050023	0.640871403
111	A0A3Q7FR13	CPSase_sm_chain domain-containing protein		0.289862618	0.269078889

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
112	A0A3Q7F6C7	NAD(P)H dehydrogenase (quinone)		0.51179143	0.295357161
113	A0A3Q7IA67	4-coumarate--CoA ligase	101249020	0.791939618	0.536791881
114	A0A3Q7HWC3	Xyloglucan endotransglucosylase/hydrolase	101259187	0.681793372	0.388585297
115	A0A3Q7FUI5	Uncharacterized protein		0.927812189	0.49614463
116	P14830	Superoxide dismutase [Cu-Zn] 1	SODCC.1	0.510955827	0.43634786
117	A0A3Q7EHP2	Peptidase A1 domain-containing protein	543853	1.161557885	0.833356525
118	A0A3Q7I495	Glycosyltransferase		0.337621705	0.295813416
119	A0A3Q7EP32	Uncharacterized protein	101254945	0.537282832	0.350536256
120	A0A3Q7FYZ1	Protein kinase domain-containing protein		0.970396833	0.427051014
121	A0A3Q7EI07	Glutathione transferase		1.015018343	0.681383274
122	A0A3Q7GNU8	Peroxidase	101264425	0.500471385	0.343546571
123	A0A3Q7HAH2	Glucose-6-phosphate 1-dehydrogenase	101253589	1.148369258	0.511737144
124	A0A3Q7ESC5	PKS_ER domain-containing protein	101250635	0.504637449	0.354145997
125	A0A3Q7GUF9	Uncharacterized protein	101266530	0.800010273	0.365567854
126	A0A3Q7H5M2	Peroxidase		0.786733068	0.495123615
127	A0A3Q7HG73	Uncharacterized protein		1.270759553	0.657303858
128	A0A3Q7FPK3	Peroxiredoxin	101260517	1.789212461	0.752453063
129	Q9AWA9	Non-symbiotic hemoglobin class 1	Glb1	0.422313388	0.411447277
130	Q08303	Polyphenol oxidase A, chloroplastic		0.786156145	0.388662846
131	A0A3Q7HVS4	Peroxidase	101251503	0.785948854	0.29093092
132	A0A3Q7J1U2	Uncharacterized protein	101246214	1.239247512	0.546113522
133	A0A3Q7JRE5	Uncharacterized protein	544258	0.564962477	0.340952662
134	A0A3Q7JVZ9	Glycosyltransferase	101257246	0.626238394	0.296354685
135	A0A3Q7FAS8	Cysteine desulfurase		0.557360429	0.502596275
136	Q941P9	Non-symbiotic hemoglobin 2	HB2	0.93095662	0.466838011
137	A0A3Q7JA97	Uncharacterized protein	101254066	0.3823492	0.307690531
138	A0A3Q7FV88	ADP,ATP carrier protein	101254581	0.345036428	0.304344398
139	A0A3Q7F088	Carbonic anhydrase		1.40947331	0.98957457
140	A0A3Q7FC86	Peroxidase	101267754	0.790501569	0.503028055

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
141	E1AZA3	Late embryogenesis abundant protein	100750252	1.747796701	0.960507861
142	A0A3Q7H3G1	Uncharacterized protein	101246836	0.999484864	0.295380861
143	A0A3Q7I5Y6	Uncharacterized protein		1.913661173	1.069775794
144	A0A3Q7FTL7	Uncharacterized protein		0.787618744	0.446232525
145	A0A3Q7HYP9	Glutathione transferase		0.893182344	0.376590485
146	A0A3Q7HIN3	Uncharacterized protein	101260347	0.945589433	0.494363572
147	A0A3Q7HA91	Uncharacterized protein		0.539847886	0.288897894
148	A0A3Q7I9Q3	4-hydroxy-4-methyl-2-oxoglutarate aldolase		0.946407994	0.54537682
149	A0A3Q7IR86	PKS_ER domain-containing protein	543602	1.112566004	0.776791254
150	A0A3Q7J509	Glutathione transferase	101265897	0.901250626	0.457758132
151	A0A3Q7EF07	Uncharacterized protein	101260856	1.05161997	0.543593893
152	A0A3Q7J1Q1	GH18 domain-containing protein	101256061	0.615463172	0.433047226
153	A0A3Q7H4C6	Tyrosine--tRNA ligase	101255211	0.413009007	0.394834339
154	A0A3Q7GB74	Uncharacterized protein		0.499899661	0.323837042
155	A0A3Q7EF20	Uncharacterized protein		0.38078189	0.342570476
156	A0A3Q7J9Q2	ADP,ATP carrier protein	101263496	0.953112698	0.554375147
157	A0A3Q7I8Q5	Protein transport protein SEC23		0.298258749	0.269655168
158	A0A3Q7JAB8	40S ribosomal protein S12	101257841	0.376658286	0.311093968
159	A0A3Q7ERB9	Fe2OG dioxygenase domain-containing protein		1.776113956	0.779163975
160	A0A3Q7J3C7	Uncharacterized protein	101262562	0.889860563	0.813552526
161	A0A3Q7EMI1	Uncharacterized protein		0.889876168	0.754478671
162	A0A3Q7JP52	Stress-response A/B barrel domain-containing protein	101249327	0.677807003	0.504842473
163	A0A3Q7ED04	Serine/threonine-protein phosphatase	101257003	0.35149309	0.292911172
164	A0A3Q7ICC4	Uncharacterized protein	101252232	1.348529149	0.691195483
165	A0A3Q7FMY7	Pyruvate dehydrogenase E1 component subunit beta		0.610948528	0.467063499
166	A0A3Q7ED53	YTH domain-containing protein	101253713	0.419064659	0.392166504
167	A0A3Q7FRG4	Uncharacterized protein		1.006301109	0.35660763
168	A0A3Q7GVD6	Peroxidase	101261825	0.671154299	0.330421045
169	A0A3Q7IPZ1	UDP-glucose 4-epimerase		0.375989932	0.269629203

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
170	A0A3Q7J3V4	Uncharacterized protein	101246693	0.419366641	0.396226834
171	A0A3Q7G5T4	Xylulose kinase	101244576	0.508753851	0.300859227
172	A0A3Q7ERJ1	Ribosome biogenesis protein BOP1 homolog		0.311468563	0.302557573
173	A0A3Q7GPN6	V-type proton ATPase subunit G	101254490	0.719244598	0.336356066
174	A0A3Q7GLX5	Uncharacterized protein	101248580	1.593410579	0.746326528
175	A0A3Q7FMM3	Uncharacterized protein		0.570139682	0.40990405
176	A0A3Q7GDD1	Cysteine--tRNA ligase		0.415284715	0.363211221
177	A0A3Q7IIR5	Non-specific lipid-transfer protein		1.310825189	0.605751459
178	A0A3Q7EI94	Protein transport protein SEC23	101255531	0.444938985	0.337566817
179	A0A3Q7GZP1	Uncharacterized protein		1.209912424	0.39544167
180	A0A3Q7EYI3	Fe2OG dioxygenase domain-containing protein		0.965408632	0.342044766
181	A0A3Q7FMZ4	Starch synthase, chloroplastic/amyloplastic		0.335967817	0.307050902
182	A0A3Q7J2X5	Uncharacterized protein	101249609	1.128944943	0.908419765
183	A0A3Q7G727	Uncharacterized protein	101261114	1.418221984	0.490934561
184	K4CRI8	Glutathione transferase	101265268	0.997871817	0.59297409
185	A0A3Q7HJ18	Uncharacterized protein	101249389	1.171756902	0.358760427
186	A0A3Q7JX81	Glycosyltransferase	101248655	0.709779775	0.32628407
187	A0A3Q7EEW3	Uncharacterized protein	101263745	0.733048068	0.263190707
188	A0A3Q7I790	Glutathione transferase		1.541941522	1.088911068
189	P27056	Non-specific lipid-transfer protein 1	TSW12	1.5668486	0.924399245
190	H1AC31	Alpha-L-arabinofuranosidase/beta-D-xylosidase	SlArf	0.750136431	0.354769332
191	A0A3Q7GAG9	Uncharacterized protein		1.259651177	1.158190425
192	A0A3Q7FF64	Uncharacterized protein	101246315	2.008052742	0.381414407
193	A0A3Q7FJX9	Endo-1,3(4)-beta-glucanase	101257148	0.635852589	0.43549843
194	A0A3Q7EM36	Uncharacterized protein		0.302168009	0.276680446
195	A0A3Q7EXD9	Thioredoxin domain-containing protein	101257319	0.469996787	0.30679553
196	A0A3Q7I7K7	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	PFP-BETA	0.79183301	0.379721769
197	A0A3Q7HZL2	SHSP domain-containing protein		1.02449611	0.85757308

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
198	A0A3Q7HW58	GMP synthase (glutamine-hydrolyzing)		0.371753903	0.358756896
199	A0A3Q7HYN1	Glutathione transferase		2.399788438	1.604478937
200	A0A3Q7GZJ6	Inositol-tetrakisphosphate 1-kinase	101262819	0.9663497	0.559538173
201	A0A3Q7J1R5	Fe2OG dioxygenase domain-containing protein	101268645	1.362730558	0.269351156
202	A0A3Q7F895	Aldehyde dehydrogenase		0.382993928	0.285002518
203	A0A3Q7GM89	Uncharacterized protein	101252396	0.874526117	0.567857708
204	A0A3Q7EVU4	Dirigent protein	101257513	1.05182938	0.830785211
205	A0A3Q7I9E2	Uncharacterized protein		1.068816825	0.797970416
206	A0A3Q7EYV7	Uncharacterized protein		1.497808405	0.728500173
207	A0A3Q7GA56	Peroxidase	101268099	0.518738456	0.410977358
208	A0A3Q7FYJ2	Uncharacterized protein	101262709	0.37873231	0.298371032
209	A0A3Q7HSP3	Uncharacterized protein	101268303	1.885842651	0.83794989
210	A0A3Q7FXQ4	Bet_v_1 domain-containing protein	101264919	1.116624153	0.551019189
211	Q9FVH0	Expansin	EXPA8	1.146542893	0.689386043
212	A0A3Q7IPN0	Factor independent urate hydroxylase		0.70962005	0.467756173
213	A0A3Q7GSA6	Epimerase domain-containing protein		0.548257703	0.31884528
214	A0A3Q7I8Z3	3-isopropylmalate dehydratase		1.520087211	1.274263832
215	A0A3Q7IKQ0	Uncharacterized protein		1.143498211	0.376963869
216	A0A3Q7GUA9	Procollagen-proline 4-dioxygenase		0.356451715	0.350569292
217	A0A3Q7G2J1	DUF4057 domain-containing protein	101260128	0.861049332	0.412313945
218	A0A3Q7GNC0	Uncharacterized protein		0.462092467	0.380396027
219	A0A3Q7IQC3	Glycerol-3-phosphate dehydrogenase		0.601892229	0.398324833
220	A0A3Q7F0L7	AAA domain-containing protein	101266596	0.37262878	0.350524917
221	A0A3Q7FL61	Pectinesterase	101247796	0.837916338	0.639983291
222	A0A3Q7IMV8	Uncharacterized protein	101254438	1.270283633	1.154029655
223	A0A3Q7F6F7	PB1 domain-containing protein		0.372012568	0.311471785
224	A0A3Q7J4A1	Uncharacterized protein	101252059	1.074668707	0.395048967
225	A0A3Q7F1Z4	Uncharacterized protein		0.502129366	0.426938693
226	K4D5L3	Uncharacterized protein	101244731	3.161564941	1.564387696

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
227	A0A3Q7EGN4	Peroxidase		0.884015005	0.514597788
228	A0A3Q7FJH7	UMP kinase		0.597891729	0.414679753
229	A0A3Q7FKF3	Eukaryotic translation initiation factor 5B		1.926675399	0.957405816
230	A0A3Q7JB49	Uncharacterized protein		0.845605793	0.388427811
231	A0A3Q7G2E7	Acyl-coenzyme A oxidase	101265227	0.768247019	0.284782629
232	A0A3Q7EWM0	Coatomer subunit epsilon		0.446957998	0.346486996
233	A0A3Q7JET2	Uncharacterized protein	101265715	0.509800659	0.443489546
234	A0A3Q7F8H5	Epimerase domain-containing protein		0.595797431	0.28204906
235	A0A3Q7HRA4	Abhydrolase_2 domain-containing protein	101264846	1.469628448	1.193792462
236	A0A3Q7J4K1	Glutathione transferase		1.289666913	0.593677539
237	A0A3Q7F2L3	Uncharacterized protein		1.394774445	0.430902398
238	A0A3Q7EL62	Uncharacterized protein	101252222	0.543073228	0.330311041
239	A0A3Q7GNH0	Glycosyltransferase		0.810254813	0.523370993
240	A0A3Q7IMG0	4-hydroxy-tetrahydrodipicolinate synthase		0.582734849	0.3594698
241	A0A3Q7IA66	SUI1 domain-containing protein	101247963	0.699427389	0.474452261
242	A0A3Q7JBE7	Uncharacterized protein		1.114839097	0.70874142
243	Q2MI69	DNA-directed RNA polymerase subunit alpha	rpoA	0.435511699	0.321555764
244	A0A3Q7GCR5	Uncharacterized protein	101257641	0.827271333	0.512726484
245	A0A3Q7EK55	Epimerase domain-containing protein		0.488756652	0.480712775
246	A0A3Q7HBA1	Uncharacterized protein	101259456	0.747324893	0.60881779
247	A0A3Q7H3R3	Uncharacterized protein	101255604	0.978633394	0.611192271
248	A0A3Q7HB64	Uncharacterized protein		0.858569847	0.566029735
249	Q9FT20	Glutathione transferase	543816	1.12688868	0.53495782
250	A0A3Q7JVY0	Uncharacterized protein	101252852	0.815255969	0.669892398
251	A0A3Q7F3P7	J domain-containing protein	101262478	0.543126154	0.442885715
252	A0A3Q7GQG1	4-coumarate--CoA ligase	101265548	1.5033587	0.781839048
253	G8Z272	Hop-interacting protein THI045	101055526	0.336611898	0.29803583
254	A0A3Q7IN73	Uncharacterized protein	101256437	0.75262853	0.649778001

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
255	K4CB47	Hydroxycinnamoyl-CoA:quinate hydroxycinnamoyl transferase	HQT	0.561637183	0.443538598
256	A0A3Q7H4X7	Uncharacterized protein		0.904319998	0.453155071
257	Q38JU2	Cryptochrome DASH, chloroplastic/mitochondrial	CRYD	0.792642137	0.63695886
258	A0A3Q7IPK3	Uncharacterized protein		0.388581972	0.385320078
259	A0A3Q7IK89	Uncharacterized protein		0.321291748	0.279997171
260	A0A3Q7IEJ1	Uncharacterized protein	101260362	0.61526685	0.556388761
261	A0A3Q7I6H8	Uncharacterized protein		0.359151394	0.318051572
262	A0A3Q7HW99	Acylphosphatase		0.67654714	0.305003913
263	A0A3Q7IB17	Uncharacterized protein	101262056	0.46716624	0.462572821
264	A0A3Q7I8T9	Cysteine proteinase inhibitor	101243640	1.362961483	0.811112075
265	O48540	Mannan endo-1,4-beta-mannosidase 1	MAN1	1.631929867	0.506466277
266	A0A3Q7HRY7	Uncharacterized protein	101244894	0.842408668	0.755041734
267	A0A3Q7H7C1	Phytoeyanin domain-containing protein		1.288920203	0.4274791
268	A0A3Q7EX00	PKS_ER domain-containing protein	101245999	0.599458833	0.300951798
269	A0A3Q7ENV7	ABC transporter domain-containing protein	101256419	0.432106056	0.263377685
270	A0A3Q7GNF0	Usp domain-containing protein	101256975	0.468782866	0.401229207
271	A0A3Q7FBJ8	Uncharacterized protein		0.988886077	0.484990457
272	A0A3Q7H7J8	Knot1 domain-containing protein		2.378303006	0.991915183
273	A0A3Q7F755	Thioredoxin	101245904	0.412255273	0.292818053
274	A0A3Q7GK42	Uncharacterized protein	101260051	2.235365076	2.079497116
275	A0A3Q7ES43	40S ribosomal protein S27		0.637595721	0.273105927
276	A0A3Q7IMI9	Arf-GAP domain-containing protein	101260680	0.33208487	0.290507228
277	A0A3Q7J5K3	GOLD domain-containing protein	104644860	0.551321266	0.483652294
278	A0A3Q7FHA2	Uncharacterized protein	101259411	1.071057957	0.54175694
279	A0A3Q7EI52	DLH domain-containing protein		0.855816411	0.487898274
280	A0A3Q7GCD5	Pyroglutamyl-peptidase I	101247819	0.503190468	0.30661816
281	A0A3Q7IL86	Uncharacterized protein		3.085373842	1.505115358
282	A0A3Q7FXQ9	Bet_v_1 domain-containing protein	101268175	0.724903959	0.72415515

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
283	A0A3Q7FV47	Uncharacterized protein	101251569	0.77039372	0.270817622
284	A0A3Q7ILD8	Uncharacterized protein		1.162646966	0.340348992
285	A0A3Q7IPM1	Knot1 domain-containing protein		1.422737402	0.700827735
286	A0A3Q7JPL2	ABC transporter domain-containing protein	101254359	0.306582596	0.280521833
287	A0A3Q7GZE4	Uncharacterized protein	101245261	1.166786993	0.438885806
288	A0A3Q7I9L2	COP9 signalosome complex subunit 6	101259087	0.857838909	0.600897576
289	A0A3Q7G6T1	SHSP domain-containing protein	101261225	1.809985354	0.863002084
290	A0A3Q7FS42	Oleosin	101263398	1.714245518	0.625662868
291	A0A3Q7FFN0	Caffeoyl-CoA O-methyltransferase	101266196	0.830816081	0.395273835
292	K4D649	Inositol transporter 4	INT4	0.345267068	0.269580384
293	K4B3K5	Uncharacterized protein	101259487	1.516809955	1.166525529
294	A0A3Q7GVI0	Uncharacterized protein	101257273	0.532635753	0.461481666
295	A0A3Q7ESE1	Uncharacterized protein		0.447170258	0.338253036
296	A0A3Q7IG95	Uncharacterized protein	101262543	0.316033374	0.292893991
297	A0A3Q7EQL3	GOLD domain-containing protein		0.540894163	0.314733078
298	A0A3Q7FTF0	GST N-terminal domain-containing protein		1.15114639	0.794754885
299	A0A3Q7FMU9	Uncharacterized protein	101262295	2.315888546	0.748969366
300	K4CGZ9	Uncharacterized protein		0.553124981	0.419513817
301	A0A3Q7FFG6	Uncharacterized protein		0.878871542	0.76668016
302	A0A3Q7HVE2	Uncharacterized protein	101260960	0.628762062	0.554399126
303	A0A3Q7IPR0	Uncharacterized protein	101250470	0.956785328	0.437540903
304	A0A3Q7FVA4	Uncharacterized protein		0.416077348	0.333531805
305	A0A3Q7GXI4	Oleosin	101249653	1.789450124	0.569892658
306	A0A3Q7HVB5	UDP-glucuronate decarboxylase		0.354173041	0.292800255
307	F8SS64	LAX3 protein	100736478	0.475581479	0.305875832
308	A0A3Q7GXY1	Beta-galactosidase	101258163	0.52014876	0.308164015
309	A0A3Q7GPX9	4-coumarate--CoA ligase		1.053242979	0.654685882
310	Q5WM33	Alpha-dioxygenase 2	alpha-DOX2	0.507902322	0.379069888

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
311	A0A3Q7GWI1	RanBD1 domain-containing protein		0.330334753	0.309309752
312	A0A3Q7GP59	Purple acid phosphatase	101260420	0.92673186	0.664402979
313	A0A3Q7FMR9	PKS_ER domain-containing protein	101249426	0.716042644	0.344217211
314	A0A3Q7JE72	Cytochrome b5 heme-binding domain-containing protein		0.845757426	0.421411794
315	A0A3Q7ET70	Fe2OG dioxygenase domain-containing protein	101253836	1.184484604	0.652460386
316	A0A3Q7IKK6	Uncharacterized protein	101250176	1.799456343	0.795817766
317	A0A3Q7FV90	Uncharacterized protein	101256744	1.519938441	0.820617308
318	A0A3Q7IZ76	Uncharacterized protein		0.391720927	0.369225888
319	A0A3Q7F7X3	AAI domain-containing protein		1.531410345	0.394934877
320	A0A3Q7J3S5	Translation machinery-associated protein 22	101244257	0.47801412	0.472118594
321	A0A3Q7FY89	Conserved oligomeric Golgi complex subunit 3		0.707676011	0.627084821
322	A0A3Q7FQF9	Iron-sulfur cluster assembly protein	101252070	0.48589223	0.367032951
323	A0A3Q7IC19	Uncharacterized protein		0.798136392	0.62662514
324	A0A3Q7GNA3	Nudix hydrolase domain-containing protein	101252182	0.36747272	0.30613765
325	A0A3Q7G4X6	UBC core domain-containing protein		0.596539662	0.277959666
326	A0A3Q7FYA8	Uncharacterized protein	101245348	0.438250071	0.300522106
327	A0A3Q7GEQ7	GDT1 family protein	101262110	0.344732939	0.314532701
328	A0A3Q7IN86	Fe2OG dioxygenase domain-containing protein		0.523178428	0.302051871
329	A0A3Q7ESX1	Peroxidase		0.399187292	0.280780244
330	A0A3Q7GHA1	Fe2OG dioxygenase domain-containing protein	101244471	0.68223326	0.554755884
331	A0A3Q7F9Y0	Uncharacterized protein	101265497	1.574970729	0.540395502
332	A0A3Q7H729	Glycosyltransferase	101254400	1.535799707	1.005008302
333	O04161	Ammonium transporter 1 member 2	AMT1-2	1.441739921	1.176777706
334	A0A3Q7FJ81	Uncharacterized protein		0.71961782	0.641654781
335	A0A3Q7HC92	Uncharacterized protein	101259649	0.872136547	0.698067241
336	K4CCH1	Uncharacterized protein		1.775211075	1.334902579
337	A0A3Q7I752	RF_PROK_I domain-containing protein	101256123	0.916110406	0.8021752
338	A0A3Q7EKH8	Methyltransferase	101260175	0.319195787	0.300597388
339	A0A3Q7EKF5	Phytocyanin domain-containing protein	101254836	1.895639596	1.30248576

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
340	A0A3Q7EUB8	Uncharacterized protein		0.36713886	0.274910779
341	A0A3Q7HZA7	AB hydrolase-1 domain-containing protein	101260564	1.300981156	0.379400051
342	A0A3Q7FCB6	CID domain-containing protein		0.286644028	0.264439857
343	K4C9T0	Tonoplast intrinsic protein 12	TIP1;2	1.17825307	1.006389148
344	A0A3Q7I7B5	Thiamine diphosphokinase		0.64024872	0.388117923
345	A0A3Q7J1E2	Uncharacterized protein	101253556	1.329150017	0.629925111
346	A0A3Q7GT52	Dirigent protein	101262426	0.309655462	0.298045802
347	A0A3Q7HDZ5	3-oxoacyl-[acyl-carrier-protein] synthase	101264230	0.60710424	0.456608873
348	P93220	Ethylene-responsive late embryogenesis-like protein	ER5	1.252036878	0.984812986
349	A0A3Q7FIC4	Uncharacterized protein	101263088	0.60983047	0.5767084
350	A0A3Q7J3W8	GH16 domain-containing protein		0.605903438	0.541955455
351	K4CHA2	AAI domain-containing protein	101256608	1.349550791	0.410839895
352	A0A3Q7IDU2	AAI domain-containing protein	101254713	1.204525094	1.032018912
353	A0A3Q7HHE8	Hydrolase_4 domain-containing protein	101244873	1.043019324	0.753829648
354	A0A3Q7GZR7	Uncharacterized protein	101265833	0.392557892	0.352245629
355	A0A3Q7HSQ3	Catechol oxidase	101261257	0.726192069	0.562693337
356	A0A3Q7H2A1	RRM domain-containing protein		1.391976115	0.879721745
357	A0A3Q7HTF7	Protein kish	101253694	0.423406079	0.294781676
358	A0A3Q7GDX0	CarbpepA_inh domain-containing protein		0.759820074	0.491350807
359	A0A3Q7FXU9	Uncharacterized protein	101267107	0.411623192	0.357437171
360	A0A3Q7J0E4	Uncharacterized protein		0.467348964	0.307651979
361	A0A3Q7FJB6	Non-specific serine/threonine protein kinase		0.82487583	0.560267074
362	A0A3Q7JE52	Glutathione transferase	101266706	0.998929354	0.63681822
363	A0A3Q7H9Q9	Glycosyltransferase	101258876	0.553155174	0.465541336
364	A0A3Q7FJJ6	AB hydrolase-1 domain-containing protein	101250966	0.739053363	0.670764334
365	A0A3Q7JEB1	Uncharacterized protein		0.574572243	0.290244107
366	A0A3Q7GCL5	Gamma-glutamylcyclotransferase family protein	101245930	1.0690504	0.724621926
367	A0A3Q7J256	Cupin type-1 domain-containing protein		1.748543515	0.688402629
368	A0A3Q7J2I8	Uncharacterized protein		0.36222833	0.300954919

	Protein ID	Description	Gene	Log2FC before graphene	Log2FC after graphene
369	K4DEY3	Protein NEOXANTHIN-DEFICIENT 1	NXD1	0.417941431	0.333390607
370	A0A3Q7FDZ5	HMA domain-containing protein	101263877	0.811161121	0.332152766
371	A0A3Q7I2J3	Uncharacterized protein		0.974529312	0.788685711
372	A0A3Q7FM99	Uncharacterized protein		0.564800887	0.38055378
373	A0A3Q7JYU7	Usp domain-containing protein		0.683176228	0.440847082
374	A0A3Q7ITX2	Uncharacterized protein	101264147	2.411692309	0.880753
375	A0A3Q7GL55	Lactamase_B domain-containing protein	101268762	0.418316786	0.336755013
376	A0A3Q7GVA3	Uncharacterized protein	101243796	0.871995369	0.344655402
377	A0A3Q7GC64	Thioredoxin domain-containing protein		1.213384474	0.454545145
378	A0A3Q7FWX7	Isopentenyl phosphate kinase		0.683957333	0.647744276
379	A0A3Q7HMM1	Uncharacterized protein	101248110	0.326650505	0.305654573
380	A0A3Q7G0M3	Uncharacterized protein	101260924	0.860303802	0.364441522
381	A0A3Q7H119	Uncharacterized protein	104648037	0.619519723	0.353256748
382	A0A3Q7IE91	N-acetyltransferase domain-containing protein	101249387	1.113608809	0.902310048
383	A0A3Q7HGY7	Uncharacterized protein		0.728559197	0.638539686
384	A0A3Q7JE95	Uncharacterized protein	101251234	0.703375009	0.368001102
385	A0A3Q7HIN5	Uncharacterized protein		0.958352303	0.911314847

Table S5. List of annotated tomato proteins that fully restored expression toward control level through up-regulation as a result of the application of CNT to salty medium

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
1	A0A3Q7HVI0	Uncharacterized protein		-0.561630293	0.355115037
2	A0A3Q7HTH3	Uncharacterized protein		-2.353358827	0.438295039
3	A0A3Q7IQI8	Uncharacterized protein	101257824	-0.493095588	0.423091223
4	A0A3Q7HRC7	M20_dimer domain-containing protein		-0.95988603	0.326439318
5	A0A3Q7H1H4	Carboxypeptidase		-0.392309628	0.358648224
6	A0A3Q7FAE2	Peptidylprolyl isomerase		-0.861481894	0.530035665

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
7	Q56R04	Aminoaldehyde dehydrogenase 1	AMADH1	-0.288318024	0.317967993
8	Q05540	Acidic 27 kDa endochitinase	CHI17	-1.780220778	0.536184361
9	A0A3Q7HXW1	Uncharacterized protein		-1.960309252	0.303764366
10	A0A3Q7FV86	Bet_v_1 domain-containing protein	101264616	-1.651370462	0.310725801
11	A0A3Q7G1C2	Uncharacterized protein	101245429	-1.199136599	0.565288171
12	A0A3Q7JIX8	Kinesin motor domain-containing protein		-0.328176921	0.290794461
13	A0A3Q7ERA8	Uncharacterized protein		-1.894050615	0.79784019
14	A0A3Q7HDI6	Protein disulfide-isomerase	101266349	-0.303362728	0.29753436
15	A0A3Q7EJL3	HABP4_PAI-RBP1 domain-containing protein	101255921	-0.432894232	0.404034095
16	A0A3Q7F4I2	Uncharacterized protein		-1.234020068	0.443933766
17	A0A3Q7FKZ2	PAP_fibrillin domain-containing protein	101263678	-0.391400776	0.28772187
18	A0RZD0	Inducible plastid-lipid associated protein	CHRD	-0.524126395	0.780583395
19	A0A3Q7HK64	Bet_v_1 domain-containing protein	101245781	-2.023008807	0.299313524
20	A0A3Q7HRQ8	PAP_fibrillin domain-containing protein	101266439	-0.457077376	0.461601159
21	A0A3Q7EHZ1	Protein kinase domain-containing protein		-0.338285465	0.408498866
22	A0A3Q7HIL7	Uncharacterized protein		-0.367503335	0.604896743
23	A0A3Q7FLN4	Superoxide dismutase	101248277	-0.529129209	0.696609544
24	A0A3Q7JF55	Selenoprotein O	101245443	-0.394003799	0.289441114
25	A0A3Q7HUX7	Uncharacterized protein	101255121	-0.580263724	0.399424154
26	A0A3Q7IL47	SF3b1 domain-containing protein		-0.283689915	0.300493845
27	A0A3Q7FKJ0	Uncharacterized protein	101268253	-0.771786465	0.570801816
28	A0A3Q7IUK7	Uncharacterized protein	101247883	-0.36867481	0.531560504
29	A0A3Q7HCM3	Glycosyltransferase		-0.440357175	0.470925871
30	A0A3Q7F5S4	CAAD domain-containing protein	101248140	-0.512268635	0.472818942
31	A0A3Q7EA78	FHA domain-containing protein	101252420	-0.378124219	0.647698256
32	A0A3Q7J1Z3	Uncharacterized protein		-0.366835402	0.400780344
33	A0A3Q7FYR5	Bet_v_1 domain-containing protein	101266326	-1.312630252	0.303087089
34	A0A3Q7FV93	ATPase_AAA_core domain-containing protein		-0.473629073	0.500014826
35	A0A3Q7EZP5	AB hydrolase-1 domain-containing protein	101260990	-0.467648519	0.270527004

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
36	A0A3Q7J6R4	Uncharacterized protein	101245924	-0.298289164	0.383826145
37	A0A3Q7GGQ3	Uncharacterized protein	101256588	-0.521623273	0.435561202
38	A0A3Q7J5A2	Phytoeyanin domain-containing protein		-0.675347564	0.286186861
39	A0A3Q7GRB6	Uncharacterized protein		-0.417822703	0.4342451
40	A0A3Q7IYQ5	Xyloglucan endotransglucosylase/hydrolase		-0.317792141	0.334451406
41	A0A3Q7INF5	Uncharacterized protein		-0.293649319	0.393551614
42	A0A3Q7HE03	Uncharacterized protein	101255514	-0.413546622	0.396427099
43	A0A3Q7JSV3	Lipoxygenase		-1.99220968	0.912994105
44	A0A3Q7JFG3	PAP_fibrillin domain-containing protein	101262674	-0.544601317	0.379458722
45	O82777	Subtilisin-like protease SBT3	sbt3	-0.38724578	0.353698085
46	A0A3Q7EM39	Uncharacterized protein		-0.397018169	0.266649006
47	A0A3Q7FCJ1	Uncharacterized protein	101249214	-1.407064667	0.459217439
48	A0A3Q7FQH2	Uncharacterized protein		-1.120931946	0.743161838
49	A0A3Q7J6D6	Uncharacterized protein	101254243	-0.562095383	0.377188573
50	A0A3Q7GJB2	Uncharacterized protein		-0.667530341	0.77326014
51	A0A3Q7IDE9	Lon protease homolog, mitochondrial		-0.323625272	0.381534649
52	A0A3Q7I175	Purple acid phosphatase	101255806	-0.475535594	0.316183464
53	A0A3Q7I9H2	Uncharacterized protein	104649495	-0.522628978	0.608865851
54	A0A3Q7IGD0	Bet_v_1 domain-containing protein	101262669	-2.167158317	0.516240201
55	A0A3Q7GNM1	Uncharacterized protein	101248300	-0.406755645	0.456350301
56	A0A3Q7FTH5	RanBD1 domain-containing protein	101248860	-1.165936884	0.391172993
57	A0A3Q7ETP9	Uncharacterized protein		-0.423445282	0.345992356
58	A0A3Q7EMN6	Rubredoxin-like domain-containing protein	101245698	-0.513954403	0.386485313
59	A0A3Q7F4A6	Eukaryotic translation initiation factor 3 subunit J	101255357	-0.355961364	0.641489894
60	O82006	Subtilisin-like protease	sbt4a	-0.323916365	0.567317475
61	A0A3Q7J8X2	Uncharacterized protein		-0.778274247	0.380314386
62	A0A3Q7F0L2	RRM domain-containing protein		-0.402573534	0.347960238
63	K4C7H6	RNA-binding protein 8A	RBM8	-0.310810522	0.594069244
64	A0A3Q7EJ56	Uncharacterized protein		-1.227268261	0.515193917

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
65	A0A3Q7EIW9	Uncharacterized protein	101264758	-0.463093043	0.263343105
66	A0A3Q7HF41	Uncharacterized protein		-0.364622474	0.525886125
67	A0A3Q7FKW5	PMEI domain-containing protein	101248367	-0.646137446	0.482172589
68	A0A3Q7JPG0	Uncharacterized protein		-0.411097886	0.419398376
69	A0A3Q7J5M9	FAS1 domain-containing protein		-0.413906184	0.573269243
70	A0A3Q7FG81	AAI domain-containing protein		-1.552895876	0.761395309
71	A0A3Q7GFA8	Cellulase domain-containing protein		-0.362919781	0.432209761
72	A0A3Q7H3Z1	Uncharacterized protein		-0.980888018	0.320576824
73	A0A3Q7EQZ3	AAI domain-containing protein	101250539	-0.654723292	0.781916206
74	A0A3Q7FXS0	Bet_v_1 domain-containing protein	101266928	-1.340338739	0.483654702
75	A0A3Q7E8H4	Uncharacterized protein		-0.77311723	0.460253472
76	A0A3Q7F081	Uncharacterized protein	101260262	-0.318639892	0.31033671
77	A0A3Q7EG84	CarbpepA_inh domain-containing protein		-1.439257713	0.473533663
78	A0A3Q7ES58	Uncharacterized protein		-0.441653218	0.722018435
79	A0A3Q7J7S3	Uncharacterized protein	101254767	-0.602987406	0.565552444
80	A0A3Q7ET25	Lipoxygenase		-1.475373693	0.529616503
81	A0A3Q7H6P4	eRF1_1 domain-containing protein		-0.510651767	0.380010057
82	D3TI69	Beta-hexosaminidase	100529103	-0.531488346	0.371127884
83	A0A3Q7GXE1	AAI domain-containing protein	101254214	-0.38178485	0.444780415
84	A0A3Q7GX38	Uncharacterized protein		-0.525888587	0.390328045
85	A0A494G9G5	Uncharacterized protein		-0.780323381	0.428073262
86	A0A3Q7F828	Glutaredoxin domain-containing protein		-0.362174923	0.326093647
87	A0A3Q7GTD8	Uncharacterized protein	101256002	-0.535892363	0.353522812
88	A0A3Q7HHJ0	Phytocyanin domain-containing protein		-0.60699842	0.584539485
89	A0A3Q7GYC5	AAA domain-containing protein	101254686	-0.286508577	0.343575455
90	A0A3Q7HZZ4	Uncharacterized protein	101262449	-0.474659541	0.33911844
91	A0A3Q7F6K7	Uncharacterized protein		-0.28195422	0.302872724
92	A0A3Q7G9S5	Glycosyltransferase	101253890	-0.395420999	0.295934111
93	A0A3Q7JC86	Uncharacterized protein		-0.671873937	0.48968493

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
94	A0A3Q7EYH4	Peptidase_S9_N domain-containing protein		-0.443015655	0.357860019
95	A0A3Q7I812	C2 domain-containing protein	101247860	-0.437598954	0.297935168
96	A0A3Q7F9I6	Hexosyltransferase	101246582	-0.281280218	0.316762694
97	A0A3Q7ERB4	PLAT domain-containing protein		-1.285035531	0.324184069
98	A0A3Q7HW56	Tho1_MOS11_C domain-containing protein	101264966	-0.271794436	0.30196489
99	A0A3Q7J109	Uncharacterized protein		-0.317495947	0.546079576
100	A0A3Q7GD91	J domain-containing protein	101251582	-1.12415382	0.418041774
101	A0A3Q7IZM8	Uncharacterized protein		-0.36159824	0.554646585
102	A0A3Q7HZC7	HMG box domain-containing protein		-0.489242486	0.506732837
103	A0A3Q7G1W0	Uncharacterized protein		-0.497765383	0.527715512
104	A0A3Q7FFM8	4HBT domain-containing protein	101259914	-0.876493243	0.386470088
105	A0A3Q7F043	Uncharacterized protein		-0.588937059	0.784769281
106	A0A3Q7I7Z6	Uncharacterized protein		-0.518046254	0.556678689
107	A0A3Q7J9W9	Uncharacterized protein		-0.368868596	0.291484864
108	A0A3Q7J3N2	Uncharacterized protein		-0.391699143	0.686192098
109	A0A3Q7F322	Uncharacterized protein	101257599	-0.383029263	0.310025049
110	A0A3Q7JCW0	Sec3-PIP2_bind domain-containing protein	101268171	-0.695222659	0.27865244
111	A0A3Q7G7Y7	Protein kinase domain-containing protein		-0.557089433	0.317190176
112	A0A3Q7IYC6	DOG1 domain-containing protein		-0.491104157	0.48162949
113	A0A3Q7IM32	Uncharacterized protein		-0.518884347	0.27352534
114	A0A3Q7HNP6	PHD-type domain-containing protein	543925	-0.629017681	0.5074259
115	A0A3Q7HM61	Uncharacterized protein		-0.516114926	0.340321269
116	A0A3Q7GT02	Uncharacterized protein	101262219	-0.400334331	0.77988133
117	A0A3Q7IXT7	Amidohydro-rel domain-containing protein	101261880	-0.317843767	0.393323468
118	A0A3Q7HHA9	Uncharacterized protein		-0.287914787	0.440313515
119	A0A3Q7I7I1	Pectinesterase	101266668	-0.353798432	0.284190859
120	A0A3Q7G7G8	CS domain-containing protein	544222	-0.372729946	0.509722057
121	A0A3Q7F451	Plus3 domain-containing protein	101265395	-0.373702702	0.35244788
122	A0A3Q7GHK0	Bet_v_1 domain-containing protein		-1.809826677	0.264427065

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
123	A0A3Q7FP19	Uncharacterized protein	101244265	-0.839855489	0.351642111
124	A0A3Q7GNE9	Uncharacterized protein	101245846	-0.287365853	0.267752358
125	A0A3Q7FT97	FPG_CAT domain-containing protein	101258844	-0.335479973	0.359668577
126	A0A3Q7H9T7	Uncharacterized protein		-0.663673007	0.309080324
127	A0A3Q7GC91	Uncharacterized protein		-0.43452239	0.331090932
128	A0A3Q7I1E8	J domain-containing protein		-0.422957163	0.397727614
129	Q00497	Shikimate kinase, chloroplastic	SK	-0.376678299	0.315106829
130	A0A3Q7F0N9	ENT domain-containing protein		-0.403120487	0.312850299
131	A0A3Q7IE68	ENT domain-containing protein		-1.163749163	0.272248875
132	K4AU10	RNase III domain-containing protein		-1.475769171	0.819080702
133	A0A3Q7FN33	Uncharacterized protein		-0.453059233	0.612748887
134	A0A3Q7IQI5	Uncharacterized protein	101251141	-0.462575391	0.476438044
135	A0A3Q7G3K3	Gal_mutarotas_2 domain-containing protein	543798	-0.265173415	0.430321061
136	A0A3Q7FW49	HMA domain-containing protein	101245116	-0.281677747	0.411622131

Table S6. List of annotated tomato proteins that partially restored expression toward control level through up-regulation as result of application of CNT to salty medium

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
1	A0A3Q7HVV0	Uncharacterized protein		-0.781993502	-0.318424664
2	A0A3Q7I500	Peroxidase		-0.910842102	-0.40134844
3	A0A3Q7FAG6	Uncharacterized protein		-0.504337154	-0.421081334
4	A0A3Q7I0A1	Glutathione transferase		-0.559034123	-0.321586169
5	A0A3Q7FMS2	Protein yippee-like	101267209	-0.424600264	-0.423960626
6	A0A3Q7EIA6	Uncharacterized protein	101252815	-0.394896796	-0.312567305
7	Q2MI93	ATP synthase subunit beta, chloroplastic	atpB	-0.409370136	-0.265087743
8	P23322	Oxygen-evolving enhancer protein 1, chloroplastic	PSBO	-1.083264483	-0.951369167
9	Q5NE20	Carbonic anhydrase	ca2	-0.46013153	-0.295739176
10	A0A3Q7IQB7	Uncharacterized protein	101249417	-0.487424978	-0.289854814

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
11	P14278	Chlorophyll a-b binding protein 4, chloroplastic	CAB4	-1.145816305	-1.034137143
12	A0A3Q7GLK1	Uncharacterized protein		-0.494471249	-0.322315151
13	A0A3Q7HTH3	Uncharacterized protein		-2.353358827	-1.915063788
14	A0A3Q7J1V3	Chlorophyll a-b binding protein, chloroplastic	543976	-1.00152163	-0.9834184
15	A0A3Q7HG29	Multifunctional fusion protein		-0.570632865	-0.346084966
16	A0A3Q7HD09	23 kDa subunit of oxygen evolving system of photosystem II	544077	-0.593295801	-0.433953744
17	A0A3Q7I5A7	Epimerase domain-containing protein	544217	-0.452534087	-0.310318999
18	A0A3Q7GZW2	Epimerase domain-containing protein	101253094	-0.549777922	-0.418482694
19	A0A3Q7IHG0	Uncharacterized protein	101250846	-0.561963685	-0.370145732
20	A0A3Q7JDI3	Chitin-binding type-1 domain-containing protein	101251136	-2.021730144	-1.989480624
21	A0A3Q7ENE0	Ribose-5-phosphate isomerase	101264255	-0.46746729	-0.351049506
22	A0A3Q7IKF2	Uncharacterized protein	544092	-1.703627878	-1.542638512
23	A0A3Q7IHG3	NAD(P)-bd_dom domain-containing protein		-0.68158985	-0.5864745
24	P29795	Oxygen-evolving enhancer protein 2, chloroplastic	PSBP	-0.510023863	-0.457688917
25	P07180	Ribulose biphosphate carboxylase small subunit, chloroplastic 3	RBCS3	-0.295773501	-0.277854094
26	A0A3Q7IAU4	(S)-2-hydroxy-acid oxidase	100134875	-0.573277726	-0.464928208
27	P07179	Ribulose biphosphate carboxylase small subunit, chloroplastic 2	RBCS2	-0.631809066	-0.541542074
28	A0A3Q7J418	Adenylate kinase		-0.353739494	-0.320718957
29	A0A3Q7HRC7	M20_dimer domain-containing protein		-0.95988603	-0.633446712
30	Q9THX6	Thylakoid lumenal 29 kDa protein, chloroplastic	CLEB3J9	-0.846480621	-0.771856776
31	A0A3Q7G7T0	Peroxidase		-0.533926007	-0.393837722
32	A4ZYQ6	1-aminocyclopropane-1-carboxylate oxidase	100125909	-0.482951438	-0.370782767
33	Q2MI44	NAD(P)H-quinone oxidoreductase subunit H, chloroplastic	ndhH	-0.488469873	-0.314318008
34	A0A3Q7FH53	Uncharacterized protein		-0.493311247	-0.366117616
35	P54773	Photosystem II 22 kDa protein, chloroplastic	PSBS	-0.569740304	-0.339563753
36	A0A3Q7F9P6	PDZ domain-containing protein	101250650	-0.558479287	-0.554185685
37	K4DFV3	Plasmamembrane intrinsic protein 13	101264708	-0.544404717	-0.517384639
38	A0A3Q7F7C5	Glucose-6-phosphate 1-epimerase	101263563	-0.49818857	-0.398786164
39	P27524	Chlorophyll a-b binding protein CP24 10A, chloroplastic	CAP10A	-1.184917087	-1.036334304

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
40	A0A3Q7G7W4	Uncharacterized protein	101263383	-0.621342914	-0.54816075
41	A0A3Q7F5X4	Uncharacterized protein		-0.477374425	-0.32578419
42	A0A3Q7J566	Uncharacterized protein	101257443	-0.924360373	-0.889345922
43	A0A3Q7FRE5	Rhodanese domain-containing protein	101268560	-0.398227783	-0.393082082
44	A0A3Q7FSA0	Ribulose-phosphate 3-epimerase	101264109	-0.740393878	-0.670855755
45	A0A3Q7FU38	Uncharacterized protein	101253367	-0.540757283	-0.299769427
46	A0A3Q7HBV3	Germin-like protein	101254918	-0.5438152	-0.329911759
47	A0A3Q7I962	Cyanate hydratase	CYN	-0.537640129	-0.492274713
48	A0A3Q7EN13	TPM_phosphatase domain-containing protein	101258104	-0.841523806	-0.720963384
49	Q05540	Acidic 27 kDa endochitinase	CHI17	-1.780220778	-1.244036417
50	Q08451	Probable aquaporin PIP-type pTOM75		-0.360898101	-0.291398637
51	A0A3Q7FCN5	SAM_MPBQ_MSBQ_MT domain-containing protein	101255662	-0.394839835	-0.285683266
52	A0A3Q7FNK6	NAD(P)-bd_dom domain-containing protein	101268541	-0.551126758	-0.391059533
53	A0A3Q7EJP2	Uncharacterized protein		-0.293037656	-0.275489455
54	A0A3Q7HXL1	Uncharacterized protein		-1.960309252	-1.656544886
55	A0A3Q7GYY4	23 kDa subunit of oxygen evolving system of photosystem II	101248113	-0.552115036	-0.444797372
56	A0A3Q7E9H0	Thioredoxin-dependent peroxiredoxin	101256114	-0.414191322	-0.366878553
57	Q2MIB4	ATP synthase subunit b, chloroplastic	atpF	-0.359051697	-0.303493879
58	A0A3Q7H0U0	Peroxidase		-0.374094165	-0.285833936
59	A0A3Q7FSS5	23 kDa subunit of oxygen evolving system of photosystem II	101259227	-0.62308779	-0.471289229
60	A0A3Q7F5F8	Cysteine synthase	101255033	-0.589488815	-0.509554475
61	A0A3Q7ITC1	PEROXIDASE_4 domain-containing protein		-0.699471392	-0.618711027
62	A0A3Q7IIS3	Uncharacterized protein		-0.341792466	-0.280959363
63	A0A3Q7HK83	Glutathione peroxidase	101248896	-0.461765157	-0.39885905
64	A0A3Q7FV86	Bet_v_1 domain-containing protein	101264616	-1.651370462	-1.340644661
65	P10708	Chlorophyll a-b binding protein 7, chloroplastic	CAB7	-0.89072847	-0.793297211
66	A0A3Q7G1C2	Uncharacterized protein	101245429	-1.199136599	-0.633848428
67	A0A3Q7I3Q3	Ribosome-recycling factor, chloroplastic	101257700	-0.583476702	-0.423867882
68	A0A3Q7IBR9	Thioredoxin domain-containing protein	101268617	-0.674867106	-0.52752619
69	A0A3Q7JCD3	Peptidase A1 domain-containing protein	101248557	-0.677315577	-0.658803822
70	A0A3Q7ERA8	Uncharacterized protein		-1.894050615	-1.096210424

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
71	A0A3Q7FEJ3	Uncharacterized protein		-2.63106339	-2.292477285
72	A0A3Q7FH23	Uncharacterized protein	109119847	-2.706005721	-2.616986394
73	A0A3Q7JDE4	23 kDa subunit of oxygen evolving system of photosystem II	101247415	-0.613292573	-0.491610877
74	A0A3Q7FKK5	Uncharacterized protein		-0.66374959	-0.610117973
75	A0A3Q7FSK9	Uncharacterized protein		-1.18026592	-0.945286983
76	A0A3Q7IA99	NAD(P)H dehydrogenase (quinone)	101245803	-0.3608343	-0.347912232
77	Q9XG54	12-oxophytodienoate reductase 1	OPR1	-0.297842748	-0.297035204
78	A0A3Q7GNR7	Uncharacterized protein		-0.552385986	-0.420474311
79	P05116	1-aminocyclopropane-1-carboxylate oxidase 1	ACO1	-0.332891241	-0.323822124
80	A0A3Q7IWK3	PAP_fibrillin domain-containing protein	101251147	-0.747932822	-0.531379813
81	A0A3Q7FI22	Rhodanese domain-containing protein		-0.571854878	-0.285585578
82	A0A3Q7IDN2	Pectin acetyltransferase	101257906	-0.355084314	-0.326024814
83	A0A3Q7G1J0	Peptidylprolyl isomerase	101257061	-0.738973977	-0.559122984
84	K4CF70	Fatty acid hydroperoxide lyase, chloroplastic	HPL	-1.202103808	-1.182414502
85	A0A494G8E9	Peptidylprolyl isomerase		-0.461352198	-0.359049878
86	K4DH15	Glutathione transferase	101253468	-0.402694646	-0.341476964
87	Q2MI94	ATP synthase epsilon chain, chloroplastic	atpE	-0.477968944	-0.344183763
88	A0A3Q7FRW6	PHB domain-containing protein	101245344	-0.696132993	-0.663886728
89	A0A3Q7H1A3	PHB domain-containing protein		-0.584825531	-0.542025621
90	K4CWU7	Uncharacterized protein	104649419	-2.000044277	-1.64116454
91	A0A3Q7IT16	Peptidylprolyl isomerase	101251715	-0.896445351	-0.796361673
92	A0A3Q7F4I2	Uncharacterized protein		-1.234020068	-0.790086301
93	A0A3Q7EST9	Carboxypeptidase		-0.309030978	-0.284165968
94	A0A3Q7IHK1	NmrA domain-containing protein	101265488	-0.318490005	-0.295878113
95	A0A3Q7I8W9	Uncharacterized protein		-1.567603187	-1.291318999
96	A0A3Q7J1C7	Lipocln_cytosolic_FA-bd_dom domain-containing protein	101260607	-0.776972291	-0.697365207
97	A0A3Q7I5F4	Photosystem II reaction center Psb28 protein	101245880	-0.530361294	-0.332374829
98	A0A3Q7FWH1	Germin-like protein	101250583	-0.677249177	-0.45605415
99	A0A3Q7I0F0	Peptidyl-prolyl cis-trans isomerase		-0.769355564	-0.577727094
100	Q2MI96	NAD(P)H-quinone oxidoreductase subunit K, chloroplastic	ndhK	-0.542170297	-0.409014904
101	A0A3Q7J0J3	Uncharacterized protein		-2.016721135	-2.008067383

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
102	A0A3Q7EPZ7	Uncharacterized protein	101257901	-0.371358623	-0.346239532
103	A0A3Q7HFK3	Uncharacterized protein		-0.75277379	-0.616000619
104	A0A3Q7HK64	Bet_v_1 domain-containing protein	101245781	-2.023008807	-1.723695283
105	A0A3Q7FXE0	Uncharacterized protein		-0.911108739	-0.851044908
106	A0A3Q7IE21	PAP_fibrillin domain-containing protein	101268326	-0.743499997	-0.53050986
107	A0A3Q7IH24	23 kDa subunit of oxygen evolving system of photosystem II	101256723	-0.455766026	-0.400669797
108	A0A3Q7IKV0	23 kDa subunit of oxygen evolving system of photosystem II	101249944	-0.474821489	-0.343343105
109	Q2MI46	NAD(P)H-quinone oxidoreductase subunit I, chloroplastic	ndhI	-0.457181027	-0.384789706
110	A0A3Q7EIF5	23 kDa subunit of oxygen evolving system of photosystem II	101243638	-0.599446686	-0.489623811
111	A0A3Q7FUU1	H15 domain-containing protein	101245534	-0.357747438	-0.307892542
112	A0A3Q7H377	GH18 domain-containing protein	101257783	-1.666598604	-1.386920781
113	A0A3Q7G3C1	23 kDa subunit of oxygen evolving system of photosystem II		-0.495302675	-0.319360699
114	A0A3Q7G3L9	Uncharacterized protein		-0.749596813	-0.673586147
115	Q2MI97	NAD(P)H-quinone oxidoreductase subunit J, chloroplastic	ndhJ	-0.498503171	-0.456506913
116	A0A3Q7IA78	Uncharacterized protein		-0.485767068	-0.410168156
117	A0A3Q7G198	Uncharacterized protein	101244365	-0.594244343	-0.469699245
118	A0A3Q7HVD5	ATP-dependent Clp protease proteolytic subunit	101261350	-0.334660294	-0.31095552
119	P05119	Wound-induced proteinase inhibitor 2		-1.791934249	-1.325522558
120	A0A3Q7FBF2	Uncharacterized protein		-0.523847296	-0.278979509
121	Q9XEX9	Remorin 2	rem-2	-0.36719362	-0.319574649
122	A0A3Q7FL73	DUF2470 domain-containing protein	101267492	-0.302720512	-0.289006073
123	A0A3Q7FYT5	23 kDa subunit of oxygen evolving system of photosystem II	101259233	-0.467705951	-0.348623794
124	A0A3Q7IA09	Uncharacterized protein		-3.123810828	-2.593553087
125	A0A3Q7GST1	Uncharacterized protein		-2.364162726	-2.074618318
126	A0A3Q7I6Q7	Uncharacterized protein	101265478	-0.518613255	-0.504014697
127	A0A3Q7HZM6	Uncharacterized protein	101248905	-0.701870375	-0.681686813
128	A0A3Q7GFE2	Uncharacterized protein	101245045	-0.528124557	-0.489679487
129	A0A3Q7F176	AB hydrolase-1 domain-containing protein	101244450	-0.41170439	-0.27959748
130	A0A3Q7HP70	Lactamase_B domain-containing protein	101266523	-0.421180959	-0.350205411
131	A0A3Q7F2W9	Uncharacterized protein	101253829	-0.343834209	-0.327396141
132	K4BZF3	Uncharacterized protein		-0.768737044	-0.693996282

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
133	A0A3Q7IA20	Beta-galactosidase	543608	-0.313765201	-0.281784049
134	A0A3Q7HFM7	t-SNARE coiled-coil homology domain-containing protein		-0.322514577	-0.278538977
135	A0A3Q7GN80	Uncharacterized protein	101255098	-1.319388748	-1.259416036
136	A0A3Q7FNW1	PDZ domain-containing protein		-0.401670983	-0.3492633
137	A0A3Q7GDR0	Uncharacterized protein	101245163	-0.653817429	-0.552486163
138	A0A3Q7ES72	Uncharacterized protein		-0.380192536	-0.313507582
139	A0A3Q7FYR5	Bet_v_1 domain-containing protein	101266326	-1.312630252	-1.009543163
140	A0A3Q7GTJ7	Rhodanese domain-containing protein	101262218	-0.829361241	-0.685719614
141	A0A3Q7FR24	Uncharacterized protein	101262296	-0.789920554	-0.557808498
142	A0A3Q7J5A2	Phytocyanin domain-containing protein		-0.675347564	-0.389160704
143	A0A3Q7HVR1	Uncharacterized protein	101261356	-0.609117677	-0.483656371
144	A0A3Q7FC90	Methionyl-tRNA formyltransferase	101261082	-0.485526762	-0.471785135
145	P12360	Chlorophyll a-b binding protein 6A, chloroplastic	CAB6A	-0.843605464	-0.524131372
146	A0A3Q7H8Y4	Phosphate transporter	101267311	-0.418319875	-0.376523827
147	A0A3Q7I9J3	Uncharacterized protein		-0.411021468	-0.282008585
148	K4BAJ5	Vitamin K epoxide reductase	100037492	-0.392194459	-0.266355741
149	A0A3Q7JB06	Uncharacterized protein	101252853	-0.386263969	-0.316318686
150	A0A3Q7F7I4	Uncharacterized protein		-0.600726776	-0.515371462
151	A0A3Q7JSV3	Lipoxygenase		-1.99220968	-1.079215574
152	A0A3Q7HHE9	Peptidylprolyl isomerase		-0.497618448	-0.408637415
153	A0A3Q7FCB2	Uncharacterized protein		-0.736176931	-0.670276529
154	A0A3Q7H521	Uncharacterized protein	101252788	-0.411295926	-0.317784994
155	A0A3Q7FEB0	Uncharacterized protein	101248362	-0.547231645	-0.509226993
156	A0A3Q7GU06	Uncharacterized protein	101266641	-0.610445125	-0.600062915
157	A0A3Q7GZK4	CAAD domain-containing protein		-0.529139382	-0.491365619
158	A0A3Q7H6Y1	Uncharacterized protein	101264531	-1.237731907	-1.048262595
159	G8Z288	Hop-interacting protein THI141	101055538	-0.299294521	-0.281470058
160	A0A3Q7H1H3	PUM-HD domain-containing protein	101245368	-0.387512245	-0.352195766
161	A0A3Q7GX86	S5A_REDUCTASE domain-containing protein	101250128	-0.44973165	-0.433470852
162	A0A3Q7FCJ1	Uncharacterized protein	101249214	-1.407064667	-0.947847229
163	A0A3Q7FQH2	Uncharacterized protein		-1.120931946	-0.377770109

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
164	A0A3Q7I643	Histone H2A		-0.601871902	-0.557182065
165	A0A3Q7JC49	Uncharacterized protein	101257748	-1.305733062	-0.954830194
166	A0A3Q7IFV9	PPM-type phosphatase domain-containing protein	101244329	-0.444969557	-0.440917653
167	Q2MI45	NAD(P)H-quinone oxidoreductase subunit 1, chloroplastic	ndhA	-0.876366646	-0.744732975
168	A0A3Q7EL73	Uncharacterized protein	101253424	-0.464027471	-0.302406012
169	A0A3Q7EIR1	Clustered mitochondria protein homolog		-0.479477103	-0.324682896
170	A0A3Q7GAH6	Uncharacterized protein		-0.660957498	-0.584001815
171	A0A3Q7F061	Polyketide_cyc domain-containing protein		-0.524728776	-0.51672503
172	A0A3Q7GLC2	Uncharacterized protein	101262011	-0.290343859	-0.286047497
173	A0A3Q7G7T5	Uncharacterized protein	101253996	-0.384452053	-0.29540884
174	A0A3Q7JB69	Uncharacterized protein		-1.145315253	-0.855808636
175	A0A3Q7ISY0	Uncharacterized protein		-0.573646708	-0.519458903
176	A0A3Q7I9C7	Uncharacterized protein		-0.344994497	-0.263413863
177	A0A3Q7FMN7	Aldo_ket_red domain-containing protein	101244752	-0.514877015	-0.460054899
178	A0A3Q7IGD0	Bet_v_1 domain-containing protein	101262669	-2.167158317	-1.650918116
179	A0A3Q7GNX5	H15 domain-containing protein	101268754	-0.514704669	-0.505872053
180	A0A3Q7FTH5	RanBD1 domain-containing protein	101248860	-1.165936884	-0.77476389
181	A0A3Q7J297	MSP domain-containing protein	101266192	-0.452748192	-0.365485091
182	K4D5S3	H15 domain-containing protein	101257130	-0.678699785	-0.561774027
183	A0A3Q7J8X2	Uncharacterized protein		-0.778274247	-0.397959861
184	P20076	Ethylene-responsive proteinase inhibitor 1		-0.899754639	-0.77870727
185	A0A3Q7FTN2	X8 domain-containing protein		-0.46518711	-0.408787939
186	A0A3Q7Hqw6	DUF1995 domain-containing protein	101261055	-0.548029754	-0.357354525
187	A0A3Q7G3M1	Uncharacterized protein		-0.432837025	-0.282970066
188	A0A3Q7EJ56	Uncharacterized protein		-1.227268261	-0.712074343
189	A0A3Q7HLJ4	PEROXIDASE_4 domain-containing protein		-0.382373776	-0.333100345
190	A0A3Q7FTJ7	Peptidase A1 domain-containing protein		-1.055366969	-1.030455539
191	A0A3Q7F9H3	Uncharacterized protein		-1.059054243	-0.941306553
192	A0A3Q7G730	Uncharacterized protein		-0.344267189	-0.316922739
193	A0A3Q7I987	Uncharacterized protein	101262255	-0.573040437	-0.480064055
194	A0A3Q7EA43	NAD(P)-bd_dom domain-containing protein		-0.62849461	-0.519303351

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
195	A0A3Q7FG81	AAI domain-containing protein		-1.552895876	-0.791500567
196	A0A3Q7H3Z1	Uncharacterized protein		-0.980888018	-0.660311194
197	A0A3Q7G3C5	Transcription elongation factor SPT5		-0.408801401	-0.358142317
198	A0A3Q7FXS0	Bet_v_1 domain-containing protein	101266928	-1.340338739	-0.856684037
199	A0A3Q7J3T9	Uncharacterized protein	101257837	-0.540329821	-0.413096081
200	A0A3Q7E8H4	Uncharacterized protein		-0.77311723	-0.312863759
201	Q40128	Flower-specific gamma-thionin-like protein/acidic protein	544000	-1.002939964	-0.599745783
202	A0A3Q7FM61	Alpha-amylase		-0.432181584	-0.432181584
203	A0A3Q7FSL5	Uncharacterized protein	101266112	-0.368753139	-0.315762453
204	A0A3Q7EG84	CarbpepA_inh domain-containing protein		-1.439257713	-0.96572405
205	A0A3Q7HIP8	Photosystem I reaction center subunit V, chloroplastic	101263732	-0.769877709	-0.619663665
206	A0A3Q7FJM3	CTP_transf_like domain-containing protein		-0.360903147	-0.277798246
207	A0A3Q7J9K3	Uncharacterized protein	101260882	-0.434635301	-0.385465696
208	A0A3Q7F7T3	AB hydrolase-1 domain-containing protein	101267470	-0.30759659	-0.263898584
209	A0A3Q7I155	Uncharacterized protein	101253800	-0.51564211	-0.290683355
210	A0A3Q7ET25	Lipoxygenase		-1.475373693	-0.94575719
211	A0A3Q7GMR4	Hexosyltransferase	101249825	-0.34996765	-0.273085377
212	A0A3Q7IA04	Uncharacterized protein		-1.358684941	-1.116127878
213	A0A494G9G5	Uncharacterized protein		-0.780323381	-0.35225012
214	A0A3Q7JVV6	Aldo_ket_red domain-containing protein	101254364	-0.466404095	-0.346163564
215	A0A3Q7J9H2	Uncharacterized protein		-2.129463833	-1.595290457
216	A0A3Q7F6N1	Copper transport protein	101247486	-0.658629252	-0.556473311
217	B1N678	Defensin protein	543741	-0.866053018	-0.821581757
218	A0A3Q7J4K7	Uncharacterized protein		-1.030790301	-0.846554282
219	A0A3Q7IAQ5	Folate gamma-glutamyl hydrolase		-0.697955698	-0.613647788
220	A0A3Q7FYS4	Uncharacterized protein	101247207	-0.49111785	-0.392473004
221	G5EM33	Calcineurin B-like molecule	SICBL1	-0.548338937	-0.405092384
222	A0A3Q7FIV4	AAI domain-containing protein		-1.756679993	-1.276105171
223	A0A3Q7JQD0	Fe2OG dioxygenase domain-containing protein	101266300	-0.284107487	-0.264340731
224	A0A3Q7FC57	YrdC-like domain-containing protein		-0.489393272	-0.321851851
225	A0A3Q7H7G6	N-acetyltransferase domain-containing protein		-0.454735414	-0.370722834

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
226	A0A3Q7GL38	Uncharacterized protein	101268280	-0.797637121	-0.73466247
227	O82625	Expansin	LeEXP2	-0.523819749	-0.500235785
228	A0A3Q7I7N1	Uncharacterized protein	101266652	-0.641120204	-0.621456877
229	A0A3Q7G464	ABC transmembrane type-1 domain-containing protein		-0.691586808	-0.397495065
230	A0A3Q7G8Y6	Uncharacterized protein	101253378	-0.487232688	-0.416809266
231	A0A3Q7HKM1	Uncharacterized protein		-0.398003773	-0.332663019
232	H6V7A0	MIP (Fragment)	Sdaqua	-0.730731142	-0.678149201
233	A0A3Q7HUB9	Protein kinase domain-containing protein	101250433	-0.578015756	-0.323710555
234	A0A3Q7GJU3	Uncharacterized protein		-0.975680674	-0.925736243
235	A0A3Q7GG14	Uncharacterized protein		-0.975147068	-0.8730267
236	C1K5M2	Dimethylallylcitransferase CPT1, chloroplastic	CPT1	-0.623405717	-0.373498177
237	A0A3Q7GZC6	CASP-like protein	101245554	-2.87996989	-2.739120954
238	A0A3Q7F628	Uncharacterized protein	101263075	-0.507988801	-0.425074579
239	A0A3Q7FNP7	Uncharacterized protein	101267007	-0.456275045	-0.288298987
240	A0A3Q7JSX4	Phospholipase D		-0.328454082	-0.268848536
241	A0A3Q7EK27	Uncharacterized protein	101244710	-0.515462836	-0.45498407
242	A0A3Q7GT59	Uncharacterized protein		-0.666300115	-0.4818938
243	A0A3Q7I3X7	NAB domain-containing protein	101265068	-0.461435599	-0.390822464
244	A0A3Q7I990	CAAD domain-containing protein	101262260	-0.525466512	-0.424223039
245	A0A3Q7IKN1	Thioredoxin domain-containing protein	101255936	-0.35527083	-0.284885507
246	A0A494G8N5	Putative gamma-glutamylcyclotransferase		-0.689542086	-0.45819317
247	A0A3Q7F0I8	Uncharacterized protein	104645946	-0.814981702	-0.779263289
248	A0A3Q7FF75	Uncharacterized protein	101253732	-0.819659108	-0.407293762
249	A0A3Q7H860	Nuclear nucleic acid-binding protein C1D		-0.361350517	-0.275703598
250	A0A3Q7GD91	J domain-containing protein	101251582	-1.12415382	-0.706112046
251	Q9FVN0	Ammonium transporter 1 member 3	AMT1-3	-0.511139981	-0.473236261
252	A0A3Q7GRI9	AAI domain-containing protein		-1.248204861	-1.095732474
253	A0A3Q7FKM6	Uncharacterized protein		-0.492366605	-0.349444009
254	A0A3Q7I6H0	Aldo_ket_red domain-containing protein	101264672	-0.394886717	-0.350550905
255	A0A3Q7FFM8	4HBT domain-containing protein	101259914	-0.876493243	-0.490023155
256	Q43710	Proteinase inhibitor type-2 TR8	ARPI	-1.672956619	-1.46647151

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
257	A0A3Q7EI38	CNNM transmembrane domain-containing protein	101259481	-0.377581066	-0.297725088
258	A0A3Q7HDM6	Uncharacterized protein	101250133	-1.024913262	-0.81812867
259	A0A3Q7H2L1	Uncharacterized protein	101248479	-0.847120687	-0.598346975
260	A0A3Q7JDV9	Mitochondrial fission 1 protein	101255974	-0.312174492	-0.271845369
261	A0A3Q7JCW0	Sec3-PIP2_bind domain-containing protein	101268171	-0.695222659	-0.416570219
262	A0A3Q7G0V7	PAM2 domain-containing protein	101253770	-0.599144313	-0.331166232
263	A0A3Q7FRE7	MSP domain-containing protein	101251644	-0.445150313	-0.399637924
264	A0A3Q7HQ53	Peptidase A1 domain-containing protein	101244399	-0.93395435	-0.782152526
265	A0A3Q7ICW0	Uncharacterized protein	101244324	-0.759351319	-0.714474668
266	Q53U36	Uncharacterized protein	778362	-1.056431132	-0.880936954
267	A0A3Q7FTQ1	Rubredoxin-like domain-containing protein	101245339	-0.634141598	-0.480955904
268	A0A3Q7HZ26	Uncharacterized protein		-0.366341833	-0.303525725
269	A0A3Q7IIV2	Ammonium transporter	101246876	-0.595903902	-0.460113031
270	A0A3Q7FJL1	AB hydrolase-1 domain-containing protein		-0.393375005	-0.295369078
271	A0A3Q7G0Q8	Peptidase_M48 domain-containing protein		-0.46222451	-0.452532287
272	A0A3Q7E990	NAD(P)-bd_dom domain-containing protein		-0.933895863	-0.791893163
273	A0A3Q7HC94	Uncharacterized protein	101268009	-1.035298882	-0.825943736
274	Q6ED34	Methylesterase	544264	-0.812297442	-0.729937647
275	A0A3Q7HPR6	Peptidase A1 domain-containing protein	101244101	-0.445647635	-0.321185941
276	A0A3Q7HVR9	Uncharacterized protein	101259872	-0.70985648	-0.573620051
277	A0A3Q7F5X8	Uncharacterized protein	101245105	-0.698162348	-0.609966243
278	A0A3Q7HSL7	AAI domain-containing protein	101244981	-0.637449462	-0.517549229
279	A0A3Q7HZC9	Uncharacterized protein		-0.554883431	-0.364311002
280	A0A3Q7HHC7	Uncharacterized protein		-0.728965416	-0.68504146
281	A0A3Q7I0L5	AB hydrolase-1 domain-containing protein	101263149	-0.593419457	-0.405131341
282	A0A3Q7GIT8	Uncharacterized protein		-0.423191253	-0.418686932
283	A0A3Q7HT35	Uncharacterized protein		-0.961876416	-0.834980111
284	A0A3Q7F4K2	RNA polymerase II transcription factor B subunit 2	101244148	-0.477239509	-0.419321919
285	A0A3Q7GHK0	Bet_v_1 domain-containing protein		-1.809826677	-1.545399613
286	A0A3Q7J162	Uncharacterized protein	101250366	-0.356474519	-0.3379805
287	A0A3Q7FP19	Uncharacterized protein	101244265	-0.839855489	-0.488213378

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
288	A0A3Q7ER08	PHD-type domain-containing protein	101250743	-0.780345589	-0.456792944
289	A0A3Q7IMC1	Uncharacterized protein	101263653	-0.488071667	-0.280084902
290	A0A3Q7FIQ7	Uncharacterized protein		-0.493771442	-0.36923381
291	A0A3Q7GFB0	Uncharacterized protein	101252677	-0.497270465	-0.422110842
292	A0A3Q7FUM5	Uncharacterized protein		-0.426026524	-0.276468076
293	A0A3Q7ITC0	Uncharacterized protein	101245608	-0.422847597	-0.399543012
294	A0A3Q7HGX7	Uncharacterized protein		-0.614157745	-0.549608897
295	P0CD47	NAD(P)H-quinone oxidoreductase subunit 2 B, chloroplastic	ndhB2	-0.713108887	-0.657601687
296	A0A3Q7I4X1	Protein kinase domain-containing protein		-0.653614451	-0.615727017
297	A0A3Q7IE68	ENT domain-containing protein		-1.163749163	-0.891500287
298	K4AU10	RNase III domain-containing protein		-1.475769171	-0.656688469
299	A0A3Q7G9P1	Uncharacterized protein	101250596	-0.388139016	-0.377678828
300	A0A3Q7ETT3	Endoglucanase	101245995	-0.927896795	-0.855765999
301	A0A3Q7GH76	zf-C2HC5 domain-containing protein	101266012	-0.495076261	-0.418331074
302	A0A3Q7F047	Uncharacterized protein		-0.470577393	-0.420103319
303	A0A3Q7EWE1	Protein kinase domain-containing protein	101265972	-0.690761804	-0.419026783
304	A0A3Q7GYS8	Uncharacterized protein	101247228	-0.704392771	-0.526100357
305	A0A3Q7IJS2	Uncharacterized protein		-1.280285449	-1.259807176
306	K4DDZ4	Uncharacterized protein		-0.770034645	-0.641003161
307	A0A3Q7JC00	Mediator of RNA polymerase II transcription subunit 25	MED25	-0.342566428	-0.29810784
308	A0A3Q7FPY4	Uncharacterized protein		-0.732744613	-0.62492025
309	A0A3Q7FWD7	Uncharacterized protein	101248168	-0.946508593	-0.636346792
310	A0A3Q7EJC9	Germin-like protein		-1.53572253	-0.885946783
311	A0A3Q7IBE8	Uncharacterized protein		-0.511116584	-0.429247241
312	A0A3Q7HTX4	Uncharacterized protein	101267334	-0.752840941	-0.600085072
313	A0A3Q7H0M1	t-SNARE coiled-coil homology domain-containing protein	101257479	-0.463272179	-0.290322568
314	A0A3Q7IB41	Peroxin-5	101251822	-0.883076617	-0.821947118

Table S7. List of annotated tomato proteins that fully restored expression toward control level through down-regulation as result of application of CNT to salty medium

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
1	A0A3Q7HBK4	Aconitate hydratase	101254008	0.852716321	-0.324015769
2	P38415	Linoleate 9S-lipoxygenase A	LOX1.1	1.491386644	-0.462147288
3	A0A3Q7I4W4	Uncharacterized protein	101252924	2.169961393	-0.970653036
4	A0A3Q7IWI5	Uncharacterized protein	101258989	2.03025221	-1.039842559
5	P30264	Catalase isozyme 1	CAT1	0.575557019	-0.655260186
6	A0A3Q7I6G7	Uncharacterized protein		2.327925398	-1.05308808
7	Q8GZP5	Allene oxide synthase 3	AOS3	1.29680012	-0.533481158
8	A0A3Q7FEY7	Uncharacterized protein		1.987265586	-0.954813209
9	A0A3Q7HX95	Fructose-bisphosphate aldolase	101266063	0.704133151	-0.297880922
10	Q5NE18	Formate dehydrogenase, mitochondrial	fdh	1.284985567	-0.835599673
11	A0A3Q7I7H2	Uncharacterized protein		1.984188424	-0.994775703
12	A0A3Q7I9A3	Protein kinase domain-containing protein		1.094710783	-0.546361359
13	A0A3Q7JDN9	Uncharacterized protein		1.311460003	-0.656007279
14	A0A3Q7FXP7	Glutamine synthetase	543756	1.652540693	-0.554859754
15	A0A3Q7JEL1	ATP citrate synthase	101267503	0.451323345	-0.362700757
16	A0A3Q7G863	Serine hydroxymethyltransferase	101264818	0.656631848	-0.557233279
17	Q42896	Fructokinase-2	FRK2	0.492413484	-0.452132353
18	P93541	Glutamate dehydrogenase	GDH1	0.729506937	-0.312684844
19	A0A3Q7F3B5	Phospholipase A1		1.62320773	-0.545025585
20	A0A3Q7HD29	Aspartate aminotransferase	101244094	0.422354842	-0.421276205
21	P43282	S-adenosylmethionine synthase 3	SAM3	0.622996341	-0.413640997
22	A0A3Q7F639	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	101243849	0.487568329	-0.354358678
23	A0A3Q7J0Z8	Uncharacterized protein		0.686696336	-0.271756255
24	A0A3Q7I9H4	Bet_v_1 domain-containing protein		0.737609268	-0.821509061
25	A0A3Q7HT77	RmlD_sub_bind domain-containing protein	101249670	0.825070684	-0.616517909

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
26	A0A3Q7FQT2	Malate synthase	101267103	1.863222389	-0.881639647
27	A0A3Q7IBT3	Uncharacterized protein		0.695149917	-0.456609942
28	P21568	Peptidyl-prolyl cis-trans isomerase	CYP	0.513645363	-0.433512083
29	A0A3Q7IMD9	S-adenosylmethionine synthase	101245012	0.429468011	-0.288304229
30	A0A3Q7JAE3	Fructose-bisphosphatase	101262700	0.493706449	-0.293113196
31	A0A3Q7HE62	Uncharacterized protein	101249663	0.500787838	-0.330223693
32	A0A3Q7E9L3	Alanine transaminase		1.021632869	-0.516784036
33	O65917	Shikimate dehydrogenase (NADP(+))	543548	0.381374313	-0.330495253
34	A0A3Q7IRF9	PKS_ER domain-containing protein		0.344639986	-0.308634111
35	A0A3Q7GBW7	Catalase		1.844295772	-0.854039737
36	A0A3Q7IRE7	PKS_ER domain-containing protein	101259903	1.754460056	-0.847133331
37	A0A3Q7HJU1	Uncharacterized protein		1.359552794	-0.551524061
38	A0A3Q7I756	Uncharacterized protein		0.511396056	-0.300954073
39	A0A3Q7JE99	Serine hydroxymethyltransferase	101259725	0.316495476	-0.287120316
40	A0A3Q7IAU7	Uncharacterized protein		0.335619459	-0.399046674
41	A0A3Q7GZI0	Uncharacterized protein	101264635	1.907583276	-0.918925867
42	A0A3Q7FB83	Phospho-2-dehydro-3-deoxyheptonate aldolase		0.565224746	-0.448451375
43	A0A3Q7ERS1	Uncharacterized protein		1.163332922	-0.553460743
44	A0A3Q7H097	Phospho-2-dehydro-3-deoxyheptonate aldolase		0.326716185	-0.551805402
45	A0A3Q7H035	Fe2OG dioxygenase domain-containing protein	101244962	1.850603433	-1.294948296
46	A0A3Q7HGQ5	Glutathione transferase		0.575259098	-0.311496948
47	A0A3Q7F688	Phosphoserine aminotransferase		0.36458276	-0.409795294
48	A0A3Q7F171	Pept_C1 domain-containing protein		0.694955878	-0.306746869
49	A0A3Q7I909	Uncharacterized protein		1.021390539	-0.53049253
50	A0A3Q7F5Y3	Uncharacterized protein		1.342579135	-0.852283195
51	A0A3Q7IDI1	Cysteine synthase	101253940	0.459073457	-0.438186219
52	A0A3Q7HXX4	Uncharacterized protein		0.57948378	-0.361971586
53	A0A3Q7EMV9	Uncharacterized protein	101262257	1.123123223	-0.418098006
54	A0A3Q7J2E4	Sulfate adenylyltransferase		0.32826321	-0.588619803

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
55	A0A3Q7EX61	Uncharacterized protein		0.864934077	-0.450017658
56	A0A3Q7F2Y7	GST C-terminal domain-containing protein		0.478816894	-0.515188564
57	A0A3Q7IGY7	Caffeoyl-CoA O-methyltransferase	101253032	0.729570725	-0.338881306
58	A0A3Q7G3R4	4-coumarate--CoA ligase	101251259	1.335031566	-0.364732572
59	A0A3Q7FD22	Neutral ceramidase	101251446	0.296131129	-0.266749304
60	A0A3Q7I392	Uncharacterized protein		0.768152109	-0.473702116
61	A0A3Q7J3L2	Transmembrane 9 superfamily member	101248549	0.425195969	-0.284913757
62	A0A3Q7FJD2	Acetolactate synthase	101247891	0.302169109	-0.306910022
63	A0A3Q7J565	NADPH-protochlorophyllide oxidoreductase	101248079	0.690199079	-0.434239761
64	A0A3Q7IBI0	NADPH-protochlorophyllide oxidoreductase	101244717	0.730892986	-0.622221254
65	A0A3Q7HU54	Uncharacterized protein		1.188828643	-0.515741171
66	A0A3Q7I0E9	Glutathione transferase		0.734102504	-0.49115768
67	A0A3Q7E9K7	Succinate--CoA ligase [ADP-forming] subunit alpha, mitochondrial	543860	0.291261442	-0.294742671
68	A0A3Q7I8W0	Aldo_ket_red domain-containing protein	104649444	0.770541043	-0.651728708
69	A0A3Q7ESZ6	PB1 domain-containing protein	101252825	0.372011654	-0.4262192
70	A0A3Q7FBN4	Caffeoyl-CoA O-methyltransferase		1.22189577	-0.563177735
71	A0A3Q7IRF5	Starch synthase, chloroplastic/amyloplastic		0.288703264	-0.294635777
72	A0A3Q7IA67	4-coumarate--CoA ligase	101249020	0.791939618	-0.290421541
73	A0A3Q7HWC3	Xyloglucan endotransglucosylase/hydrolase	101259187	0.681793372	-0.286566575
74	A0A3Q7H4T5	Aldedh domain-containing protein	101254485	0.309560743	-0.40001592
75	A0A3Q7I933	Uncharacterized protein	101262752	1.262078506	-0.765875901
76	A0A3Q7HE60	Acetolactate synthase		0.714267478	-0.578302009
77	A0A3Q7FYZ1	Protein kinase domain-containing protein		0.970396833	-0.418630023
78	A0A3Q7EMU1	NAD(P)H dehydrogenase (quinone)	101265773	0.634881227	-0.62193094
79	A0A3Q7HAH2	Glucose-6-phosphate 1-dehydrogenase	101253589	1.148369258	-0.630150171
80	A0A3Q7HG73	Uncharacterized protein		1.270759553	-0.481092779
81	A0A3Q7FPK3	Peroxiredoxin	101260517	1.789212461	-0.793276253
82	A0A3Q7IL22	Methenyltetrahydrofolate cyclohydrolase	101249506	0.415432603	-0.303240856

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
83	A0A3Q7HV22	Beta-ketoacyl-[acyl-carrier-protein] synthase I	101251311	0.544614025	-0.47463936
84	Q08303	Polyphenol oxidase A, chloroplastic		0.786156145	-0.331314607
85	A0A3Q7FQ67	SGNH_hydro domain-containing protein	101247090	0.614834409	-0.374086056
86	A0A3Q7J1U2	Uncharacterized protein	101246214	1.239247512	-0.691427405
87	A0A3Q7JVZ9	Glycosyltransferase	101257246	0.626238394	-0.267762885
88	Q941P9	Non-symbiotic hemoglobin 2	HB2	0.93095662	-0.548371001
89	E1AZA3	Late embryogenesis abundant protein	100750252	1.747796701	-0.779002623
90	A0A3Q7H3G1	Uncharacterized protein	101246836	0.999484864	-0.606640745
91	A0A3Q7I5Y6	Uncharacterized protein		1.913661173	-0.807044324
92	A0A3Q7HMU2	AAA domain-containing protein	101257288	0.475862346	-0.292313682
93	A0A3Q7H8H1	Uncharacterized protein		0.430275253	-0.306376089
94	A0A3Q7FTL7	Uncharacterized protein		0.787618744	-0.384407923
95	A0A3Q7HYP9	Glutathione transferase		0.893182344	-0.543009427
96	A0A3Q7I9Q3	4-hydroxy-4-methyl-2-oxoglutarate aldolase		0.946407994	-0.445321988
97	A0A3Q7J509	Glutathione transferase	101265897	0.901250626	-0.482767679
98	A0A3Q7I801	Bet_v_1 domain-containing protein	101246666	1.2241656	-1.205829592
99	A0A3Q7IGH7	RRM domain-containing protein		0.792878749	-0.865113903
100	A0A3Q7GB74	Uncharacterized protein		0.499899661	-0.279059063
101	A0A3Q7HWL4	Phenylalanine ammonia-lyase		0.396407818	-0.388105288
102	A0A3Q7ERB9	Fe2OG dioxygenase domain-containing protein		1.776113956	-0.85919139
103	A0A3Q7ICC4	Uncharacterized protein	101252232	1.348529149	-0.69525871
104	A0A3Q7HXX1	Arf-GAP domain-containing protein	101251611	0.57874361	-0.369019804
105	A0A3Q7IIR5	Non-specific lipid-transfer protein		1.310825189	-0.516874478
106	A0A3Q7GZP1	Uncharacterized protein		1.209912424	-0.808990522
107	A0A3Q7EYI3	Fe2OG dioxygenase domain-containing protein		0.965408632	-0.477676366
108	A0A3Q7FR75	NADH:ubiquinone reductase (non-electrogenic)	101258913	0.420027152	-0.343428351
109	Q2VY16	Peptidylprolyl isomerase	CIP3	0.317412614	-0.268556166
110	A0A3Q7G727	Uncharacterized protein	101261114	1.418221984	-0.893255618
111	A0A3Q7H0S1	Serine/threonine-protein phosphatase	101243716	0.399273578	-0.311774393

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
112	K4CRI8	Glutathione transferase	101265268	0.997871817	-0.350074021
113	A0A3Q7HJ18	Uncharacterized protein	101249389	1.171756902	-0.874155892
114	A0A3Q7JX81	Glycosyltransferase	101248655	0.709779775	-0.391179803
115	A0A3Q7EEW3	Uncharacterized protein	101263745	0.733048068	-0.463091257
116	A0A3Q7F545	Thioredoxin domain-containing protein		0.718237592	-0.87929184
117	H1AC31	Alpha-L-arabinofuranosidase/beta-D-xylosidase	SlArf	0.750136431	-0.321767266
118	A0A3Q7FF64	Uncharacterized protein	101246315	2.008052742	-1.268495271
119	A0A3Q7EXD9	Thioredoxin domain-containing protein	101257319	0.469996787	-0.310453056
120	A0A3Q7GM59	RRM domain-containing protein		0.595299926	-0.726410717
121	A0A3Q7GZJ6	Inositol-tetrakisphosphate 1-kinase	101262819	0.9663497	-0.329135579
122	A0A3Q7J5C5	Uncharacterized protein	101253864	0.430141181	-0.320768031
123	A0A3Q7J1R5	Fe2OG dioxygenase domain-containing protein	101268645	1.362730558	-1.141036689
124	A0A3Q7EJP1	Non-specific lipid-transfer protein	101259287	2.641104562	-1.439580783
125	A0A3Q7J8C6	4-coumarate--CoA ligase		0.316422863	-0.278378032
126	A0A3Q7H1P2	Uncharacterized protein		0.455817349	-0.373293914
127	A0A3Q7I9E2	Uncharacterized protein		1.068816825	-0.363600623
128	A0A3Q7G0B7	Fe2OG dioxygenase domain-containing protein		0.394211465	-0.629256774
129	Q9FVH0	Expansin	EXPA8	1.146542893	-0.434088786
130	A0A3Q7HEV4	Arf-GAP domain-containing protein		0.320506813	-0.339731789
131	A0A3Q7I6Y9	Photolyase/cryptochrome alpha/beta domain-containing protein	101245200	0.387436112	-0.321070336
132	K4BCJ1	Ribosomal_TL5_C domain-containing protein	101250850	0.290647561	-0.275501068
133	A0A3Q7G2J1	DUF4057 domain-containing protein	101260128	0.861049332	-0.406181599
134	A0A3Q7I7Z2	Uncharacterized protein	101245798	0.294079292	-0.292579878
135	A0A3Q7FEL6	Peroxidase	101258529	0.601304979	-0.512596671
136	A0A3Q7F0G4	DIOX_N domain-containing protein		0.882161111	-0.581451823
137	A0A3Q7I749	Uncharacterized protein		0.362562449	-0.430160696
138	A0A3Q7J4A1	Uncharacterized protein	101252059	1.074668707	-0.564309081
139	A0A3Q7GMX1	Uncharacterized protein		0.839963708	-0.42561785

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
140	K4D5L3	Uncharacterized protein	101244731	3.161564941	-1.289755938
141	A0A3Q7I581	Abhydrolase_3 domain-containing protein	101251700	0.430360274	-0.46899126
142	A0A3Q7H037	4-coumarate--CoA ligase		0.444022882	-0.559296574
143	A0A3Q7EGN4	Peroxidase		0.884015005	-0.266198959
144	A0A3Q7FKF3	Eukaryotic translation initiation factor 5B		1.926675399	-0.785784215
145	A0A3Q7JB49	Uncharacterized protein		0.845605793	-0.486947054
146	A0A3Q7G2E7	Acyl-coenzyme A oxidase	101265227	0.768247019	-0.465366918
147	A0A3Q7GV32	Uncharacterized protein	101252190	1.698915108	-1.174713485
148	A0A3Q7F8H5	Epimerase domain-containing protein		0.595797431	-0.448323597
149	A0A3Q7IVC8	Uncharacterized protein	101247056	1.181707724	-1.185001858
150	A0A3Q7F2L3	Uncharacterized protein		1.394774445	-0.808180523
151	O22616	Ornithine decarboxylase	ODC	0.406892957	-0.600795775
152	A0A3Q7H4M5	Uncharacterized protein		0.380159083	-0.393703543
153	A0A3Q7GNH0	Glycosyltransferase		0.810254813	-0.341584693
154	A0A3Q7JBE7	Uncharacterized protein		1.114839097	-0.465403732
155	A0A3Q7G7I3	PfkB domain-containing protein	101262108	0.284118622	-0.270587932
156	A0A3Q7H3R3	Uncharacterized protein	101255604	0.978633394	-0.330305145
157	A0A3Q7HYF8	Uncharacterized protein		0.46310141	-0.634185016
158	Q9FT20	Glutathione transferase	543816	1.12688868	-0.660365271
159	A0A3Q7FXZ8	Protein kinase domain-containing protein		0.370675129	-0.379764265
160	A0A3Q7JD91	MaoC-like domain-containing protein		0.482528403	-0.27887668
161	A0A3Q7H4X7	Uncharacterized protein		0.904319998	-0.495585779
162	A0A3Q7EUT2	Flavin-containing monooxygenase	101254042	0.597470327	-0.382095937
163	O48540	Mannan endo-1,4-beta-mannosidase 1	MAN1	1.631929867	-0.896210209
164	A0A3Q7ETI0	Uncharacterized protein	104645411	0.746574309	-0.441280427
165	A0A3Q7EX00	PKS_ER domain-containing protein	101245999	0.599458833	-0.318406592
166	A0A3Q7HW69	Adenylate kinase		0.569013939	-0.453995665
167	A0A3Q7H7J8	Knot1 domain-containing protein		2.378303006	-1.017444105
168	A0A3Q7IL86	Uncharacterized protein		3.085373842	-1.231247941

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
169	A0A3Q7FV47	Uncharacterized protein	101251569	0.77039372	-0.462904166
170	A0A3Q7ILD8	Uncharacterized protein		1.162646966	-0.839481431
171	A0A3Q7GZE4	Uncharacterized protein	101245261	1.166786993	-0.715261955
172	A0A3Q7I5C0	MFS domain-containing protein		0.324994398	-0.394323523
173	A0A3Q7G6T1	SHSP domain-containing protein	101261225	1.809985354	-0.945562899
174	A0A3Q7FS42	Oleosin	101263398	1.714245518	-1.000172961
175	A0A3Q7H2A8	Rhodanese domain-containing protein		0.440048031	-0.454619381
176	A0A3Q7I7D6	Complex1_LYR_dom domain-containing protein	101246960	0.442419181	-0.378716875
177	A0A3Q7FMU9	Uncharacterized protein	101262295	2.315888546	-1.253232939
178	A0A3Q7IPR0	Uncharacterized protein	101250470	0.956785328	-0.407128845
179	A0A3Q7IT23	Uncharacterized protein		0.305269107	-0.342481195
180	A0A3Q7GPX9	4-coumarate--CoA ligase		1.053242979	-0.548919196
181	A0A3Q7FMR9	PKS_ER domain-containing protein	101249426	0.716042644	-0.45763039
182	A0A3Q7JE72	Cytochrome b5 heme-binding domain-containing protein		0.845757426	-0.339110274
183	A0A3Q7ET70	Fe2OG dioxygenase domain-containing protein	101253836	1.184484604	-0.624405744
184	A0A3Q7IKK6	Uncharacterized protein	101250176	1.799456343	-0.897764654
185	A0A3Q7IE53	Beta-ketoacyl-[acyl-carrier-protein] synthase III	101244208	0.530951083	-0.298965735
186	A0A3Q7FV90	Uncharacterized protein	101256744	1.519938441	-0.789163646
187	A0A3Q7GW90	GHMP_kinases_N domain-containing protein	101256682	0.452694988	-0.427048727
188	P38416	Linoleate 9S-lipoxygenase B	LOX1.2	1.124953226	-0.776699938
189	A0A3Q7F7X3	AAI domain-containing protein		1.531410345	-0.889629865
190	A0A3Q7E8V3	1,3-beta-glucan synthase	101263837	1.364943466	-1.12690344
191	A0A3Q7ILR9	Uncharacterized protein		0.370203037	-0.305709748
192	A0A3Q7JCI1	Branched-chain-amino-acid aminotransferase	101253875	0.868674323	-0.697739914
193	A0A3Q7IN86	Fe2OG dioxygenase domain-containing protein		0.523178428	-0.264350133
194	A0A3Q7G0R2	Lipase	101250773	0.863709395	-0.480352204
195	A0A3Q7H729	Glycosyltransferase	101254400	1.535799707	-0.485654739
196	A0A3Q7HMZ6	Ferrochelatase	101263738	0.380347589	-0.265619028
197	A0A3Q7HPE0	Uncharacterized protein	101255319	0.600493653	-0.28332581

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
198	A0A3Q7EUB8	Uncharacterized protein		0.36713886	-0.333830184
199	A0A3Q7HZA7	AB hydrolase-1 domain-containing protein	101260564	1.300981156	-0.986872566
200	Q00747	Protein LE25	LE25	0.920252996	-0.791891805
201	A0A3Q7J1E2	Uncharacterized protein	101253556	1.329150017	-0.701113588
202	A0A3Q7F908	Uncharacterized protein		0.391533562	-0.398406825
203	A0A3Q7HDZ5	3-oxoacyl-[acyl-carrier-protein] synthase	101264230	0.60710424	-0.282674959
204	A0A3Q7IJQ6	GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase	101250940	0.454508896	-0.445855914
205	A0A3Q7HIZ5	PABS domain-containing protein	101254014	1.573991383	-1.255925928
206	K4CHA2	AAI domain-containing protein	101256608	1.349550791	-0.689947199
207	A0A3Q7GWI7	Uncharacterized protein		1.274086906	-0.526103765
208	A0A3Q7FMB3	Glycosyltransferase	101259920	0.264261262	-0.396758766
209	A0A3Q7FJB6	Non-specific serine/threonine protein kinase		0.82487583	-0.289233467
210	A0A3Q7I8B8	4F5 domain-containing protein		0.421229228	-0.372612809
211	A0A3Q7I9R2	Peroxidase	101244682	1.009042675	-0.71563325
212	A0A3Q7GCL5	Gamma-glutamylcyclotransferase family protein	101245930	1.0690504	-0.530544485
213	A0A3Q7GUK8	Fe2OG dioxygenase domain-containing protein	101266529	0.543681388	-0.30887704
214	A0A3Q7J256	Cupin type-1 domain-containing protein		1.748543515	-1.007938077
215	A0A3Q7HG03	Uncharacterized protein		0.544191092	-0.770552415
216	A0A3Q7ITX2	Uncharacterized protein	101264147	2.411692309	-1.193393254
217	A0A3Q7GVA3	Uncharacterized protein	101243796	0.871995369	-0.611276686
218	A0A3Q7HG80	Chalcone synthase	101245061	0.278046337	-0.341750669
219	A0A3Q7J3C5	Glycosyltransferase	101247699	0.445414218	-0.370569054
220	A0A3Q7GBK4	TP_methylase domain-containing protein		0.722829622	-0.382880855
221	A0A3Q7G0M3	Uncharacterized protein	101260924	0.860303802	-0.462219436
222	A0A3Q7IE91	N-acetyltransferase domain-containing protein	101249387	1.113608809	-0.337189014

Table S8. List of annotated tomato proteins that partially restored expression toward control level through down-regulation as a result of application of CNT to salty medium

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
1	O80432	Mitochondrial small heat shock protein	LEMTSHP	1.218490349	0.829741983
2	A0A3Q7ITP5	Uncharacterized protein	544205	1.434455324	0.296893728
3	A0A3Q7F9P0	Uncharacterized protein	101254946	0.852358368	0.294309497
4	A0A3Q7EHN4	Peptidase A1 domain-containing protein	101254728	1.137565046	0.29218246
5	A0A3Q7FUL5	SHSP domain-containing protein	101248279	0.768126526	0.711494907
6	A0A3Q7HBK4	Aconitate hydratase	101254008	0.852716321	0.528700552
7	P38415	Linoleate 9S-lipoxygenase A	LOX1.1	1.491386644	1.029239355
8	A0A3Q7I4W4	Uncharacterized protein	101252924	2.169961393	1.199308357
9	A0A3Q7IWI5	Uncharacterized protein	101258989	2.03025221	0.990409651
10	A0A3Q7ITD1	Pyr_redox_2 domain-containing protein	101264360	0.408865496	0.352056991
11	A0A3Q7IQV2	Methylenetetrahydrofolate reductase	101255258	0.514963953	0.301871818
12	A0A3Q7I6G7	Uncharacterized protein		2.327925398	1.274837318
13	A0A3Q7I9U4	Adenosylhomocysteinase	544304	0.690675548	0.6021127
14	Q8GZP5	Allene oxide synthase 3	AOS3	1.29680012	0.763318962
15	A0A3Q7FEY7	Uncharacterized protein		1.987265586	1.032452377
16	A0A3Q7HX95	Fructose-bisphosphate aldolase	101266063	0.704133151	0.406252229
17	P17786	Elongation factor 1-alpha		0.439632984	0.263719405
18	A0A3Q7GQM4	Uncharacterized protein	101248107	0.356624302	0.298705346
19	A0A3Q7J0Z4	Elongation factor 1-alpha	101264700	0.738518484	0.719000048
20	A0A3Q7ILY0	Fructose-bisphosphate aldolase		0.411076519	0.283028478
21	A0A3Q7F9B8	UDP-glucose 6-dehydrogenase		0.429535511	0.263263431
22	Q5NE18	Formate dehydrogenase, mitochondrial	fdh	1.284985567	0.449385894
23	A0A3Q7I7H2	Uncharacterized protein		1.984188424	0.989412721
24	A0A3Q7I9A3	Protein kinase domain-containing protein		1.094710783	0.548349424
25	A0A3Q7JDN9	Uncharacterized protein		1.311460003	0.655452724
26	A0A3Q7EN15	Lipoxygenase		0.616732514	0.449953662

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
27	A0A3Q7FXP7	Glutamine synthetase	543756	1.652540693	1.097680939
28	A0A3Q7GH43	Malate dehydrogenase		0.548468518	0.294500895
29	P43281	S-adenosylmethionine synthase 2	SAM2	0.732763027	0.546802202
30	A0A3Q7FFR5	Peroxidase	101265511	0.85937735	0.672133108
31	A0A3Q7EZ95	Malate dehydrogenase	101249428	0.749047025	0.31117879
32	P93541	Glutamate dehydrogenase	GDH1	0.729506937	0.416822093
33	A0A3Q7GX91	Mitogen-activated protein kinase		0.639424755	0.476525032
34	A0A3Q7F3B5	Phospholipase A1		1.62320773	1.078182144
35	A0A3Q7IN91	Adenosine kinase		0.456428522	0.275776034
36	A0A3Q7G0X6	Sulfate adenylyltransferase	101256557	0.615246499	0.443693199
37	A0A3Q7GRY0	Glutathione transferase		0.638578181	0.324067858
38	A0A3Q7JDK3	Uncharacterized protein	101266108	0.643065455	0.569439486
39	A0A3Q7H441	Acetyltransferase component of pyruvate dehydrogenase complex	101244498	0.382519361	0.269794557
40	A0A3Q7J0Z8	Uncharacterized protein		0.686696336	0.414940081
41	A0A3Q7IL38	Eukaryotic translation initiation factor 3 subunit L		0.596018998	0.440918964
42	A0A3Q7GF14	6-phosphogluconate dehydrogenase, decarboxylating		0.404282191	0.34166016
43	A0A3Q7GJ89	Uncharacterized protein	543509	0.386247897	0.35700396
44	A0A3Q7FCM3	Uncharacterized protein	101264774	0.514037512	0.272061915
45	A0A3Q7JG33	Uncharacterized protein		0.460251421	0.324909941
46	A0A3Q7FQT2	Malate synthase	101267103	1.863222389	0.981582742
47	C6K2K9	GDP-mannose 3,5-epimerase	GME1	0.457860324	0.399227053
48	A0A3Q7E9L3	Alanine transaminase		1.021632869	0.504848833
49	A0A3Q7JRL8	Aldedh domain-containing protein	101247788	0.46487567	0.359035582
50	A0A3Q7GBW7	Catalase		1.844295772	0.990256035
51	A0A3Q7JDG4	Uncharacterized protein		0.932470556	0.656403255
52	A0A3Q7IRE7	PKS_ER domain-containing protein	101259903	1.754460056	0.907326725
53	A0A3Q7EWQ3	Ferredoxin--NADP reductase, chloroplastic	101268044	0.572822545	0.325914059
54	A0A3Q7HJU1	Uncharacterized protein		1.359552794	0.808028732

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
55	A0A3Q7FVS7	Uncharacterized protein	101265626	0.372530104	0.325149433
56	A0A3Q7IPI5	Uncharacterized protein	101262068	0.453858466	0.319658997
57	A0A3Q7GZI0	Uncharacterized protein	101264635	1.907583276	0.988657409
58	A0A3Q7HST6	Uncharacterized protein		0.616711108	0.391210594
59	A0A3Q7GVY6	AAA domain-containing protein		0.354248458	0.293402903
60	A0A3Q7H2W6	Carboxypeptidase	101251103	0.318949335	0.292065557
61	A0A3Q7ERS1	Uncharacterized protein		1.163332922	0.609872178
62	A0A3Q7H035	Fe2OG dioxygenase domain-containing protein	101244962	1.850603433	0.555655137
63	A0A3Q7GC67	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	PFP-ALPHA	0.798389495	0.494903941
64	A0A3Q7HQQ5	Glutathione transferase		0.575259098	0.26376215
65	A0A3Q7G0C7	Uncharacterized protein	101245049	0.700316305	0.535750059
66	A0A3Q7F171	Pept_C1 domain-containing protein		0.694955878	0.388209009
67	A0A3Q7H4V4	Threonine--tRNA ligase	101257168	0.353201511	0.349074329
68	A0A3Q7G4Y3	Uncharacterized protein		0.449238112	0.404169181
69	A0A3Q7IFP1	D-3-phosphoglycerate dehydrogenase		0.414435965	0.391040397
70	A0A3Q7IAA7	Glutathione transferase		0.671466086	0.508050134
71	A0A3Q7EQV5	Uncharacterized protein		0.293072935	0.282571151
72	A0A3Q7EMV9	Uncharacterized protein	101262257	1.123123223	0.705025217
73	A0A3Q7EX61	Uncharacterized protein		0.864934077	0.414916419
74	A0A3Q7GM68	Protein transport protein SEC23	101255494	0.284907461	0.277621556
75	A0A3Q7IP97	Uncharacterized protein	101255645	0.812492071	0.710293072
76	A0A3Q7H6T8	Uncharacterized protein		0.521989293	0.33300898
77	A0A3Q7IGY7	Caffeoyl-CoA O-methyltransferase	101253032	0.729570725	0.390689419
78	A0A3Q7G3R4	4-coumarate--CoA ligase	101251259	1.335031566	0.970298994
79	A0A3Q7JBS2	Uncharacterized protein	101265520	0.870909146	0.344599359
80	A0A3Q7ETL5	Uncharacterized protein	101251498	0.598320125	0.446451465
81	A0A3Q7HPT3	SurE domain-containing protein		0.47272745	0.458699982
82	A0A3Q7FXM7	Endo-1,3(4)-beta-glucanase		0.676585351	0.507065208

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
83	A0A3Q7F625	Catechol oxidase		0.824055149	0.587219408
84	A0A3Q7IWC1	Uncharacterized protein		1.192984634	0.665245594
85	A0A3Q7GRP7	Uncharacterized protein	101264111	0.471057099	0.339009169
86	A0A3Q7JE58	Lysine--tRNA ligase		1.026583709	0.532111922
87	A0A3Q7EMP0	Cysteine synthase		0.605862738	0.32833061
88	A0A3Q7EN83	Uncharacterized protein		0.692565785	0.510398113
89	A0A3Q7JRU9	Profilin		0.360854997	0.315962571
90	A0A3Q7IC52	Uncharacterized protein		0.547087486	0.29904409
91	A0A3Q7HU54	Uncharacterized protein		1.188828643	0.673087472
92	A9LRT7	Isopentenyl-diphosphate Delta-isomerase	IPI	0.362525832	0.351061414
93	A0A3Q7HFZ1	Proteasome subunit alpha type	101247839	0.439362337	0.295354512
94	Q6J1L7	Mannose-1-phosphate guanylyltransferase	GMP	0.560677243	0.491704758
95	A0A3Q7J2X1	Malic enzyme		0.737374873	0.476462882
96	A0A3Q7FET9	Acylaminoacyl-peptidase		0.385547021	0.319106359
97	A0A3Q7H1P7	Beta-glucosidase	101260057	0.379493382	0.372723903
98	A0A3Q7H063	Uncharacterized protein	101266947	0.444642852	0.420984118
99	A0A3Q7IQY4	Uncharacterized protein		0.552708806	0.301441945
100	A0A3Q7IJE0	Peroxidase		0.705050023	0.616687494
101	A0A3Q7F6C7	NAD(P)H dehydrogenase (quinone)		0.51179143	0.287684378
102	A0A3Q7IA67	4-coumarate--CoA ligase	101249020	0.791939618	0.501518077
103	A0A3Q7HWC3	Xyloglucan endotransglucosylase/hydrolase	101259187	0.681793372	0.395226797
104	A0A3Q7F8U4	PEROXIDASE_4 domain-containing protein	101264583	0.805851432	0.322790859
105	A0A3Q7I933	Uncharacterized protein	101262752	1.262078506	0.496202605
106	A0A3Q7I495	Glycosyltransferase		0.337621705	0.295977422
107	A0A3Q7EP32	Uncharacterized protein	101254945	0.537282832	0.334394955
108	A0A3Q7JDG0	ATP-dependent 6-phosphofructokinase	101268752	0.317821193	0.301869857
109	A0A3Q7ENX2	Uncharacterized protein	101257899	0.327781395	0.265631474
110	A0A3Q7FYZ1	Protein kinase domain-containing protein		0.970396833	0.55176681
111	A0A3Q7EI07	Glutathione transferase		1.015018343	0.752394405

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
112	A0A3Q7HAH2	Glucose-6-phosphate 1-dehydrogenase	101253589	1.148369258	0.518219087
113	A0A3Q7ESC5	PKS_ER domain-containing protein	101250635	0.504637449	0.278521082
114	A0A3Q7GUF9	Uncharacterized protein	101266530	0.800010273	0.463143095
115	A0A3Q7IMI8	Uncharacterized protein		0.566729331	0.347027541
116	A0A3Q7H5M2	Peroxidase		0.786733068	0.563144433
117	A0A3Q7HG73	Uncharacterized protein		1.270759553	0.789666774
118	Q41340	Small GTP-binding protein	LeRab1C	0.398642101	0.305544556
119	A0A3Q7FPK3	Peroxiredoxin	101260517	1.789212461	0.995936207
120	A0A3Q7G4G6	Peptidase_S9 domain-containing protein	101255389	0.389017333	0.374615666
121	Q08303	Polyphenol oxidase A, chloroplastic		0.786156145	0.454841538
122	A0A3Q7H VX4	Peroxidase	101251503	0.785948854	0.324589221
123	A0A3Q7J1U2	Uncharacterized protein	101246214	1.239247512	0.547820107
124	A0A3Q7JRE5	Uncharacterized protein	544258	0.564962477	0.344692638
125	A0A3Q7JVZ9	Glycosyltransferase	101257246	0.626238394	0.35847551
126	A0A3Q7FAS8	Cysteine desulfurase		0.557360429	0.456345923
127	A0A3Q7JSS8	Uncharacterized protein	101256357	0.479722545	0.418863257
128	A0A3Q7F088	Carbonic anhydrase		1.40947331	0.897027949
129	A0A3Q7FC86	Peroxidase	101267754	0.790501569	0.597327052
130	E1AZA3	Late embryogenesis abundant protein	100750252	1.747796701	0.968794078
131	A0A3Q7H3G1	Uncharacterized protein	101246836	0.999484864	0.392844119
132	A0A3Q7I5Y6	Uncharacterized protein		1.913661173	1.106616849
133	A0A3Q7I5X9	Uncharacterized protein		0.395829847	0.331745856
134	A0A3Q7IQX9	ATP-dependent 6-phosphofructokinase	101268243	0.538469915	0.287980763
135	A0A3Q7FTL7	Uncharacterized protein		0.787618744	0.403210821
136	A0A3Q7HYP9	Glutathione transferase		0.893182344	0.350172917
137	A0A3Q7HIN3	Uncharacterized protein	101260347	0.945589433	0.574839935
138	A0A3Q7HA91	Uncharacterized protein		0.539847886	0.311944006
139	A0A3Q7I9Q3	4-hydroxy-4-methyl-2-oxoglutarate aldolase		0.946407994	0.501086006
140	A0A3Q7J509	Glutathione transferase	101265897	0.901250626	0.418482947

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
141	A0A3Q7EF07	Uncharacterized protein	101260856	1.05161997	0.651114285
142	A0A3Q7IEV2	Coatomer subunit delta		0.338368621	0.330208095
143	E7EC27	Aquaporin	100529106	0.771959173	0.439558499
144	A0A3Q7J1Q1	GH18 domain-containing protein	101256061	0.615463172	0.527077623
145	A0A3Q7H4C6	Tyrosine--tRNA ligase	101255211	0.413009007	0.363573916
146	A0A3Q7EF20	Uncharacterized protein		0.38078189	0.364449528
147	A0A3Q7IT40	Pyruvate kinase	101248036	0.435714648	0.400824666
148	A0A3Q7J9Q2	ADP,ATP carrier protein	101263496	0.953112698	0.650992638
149	A0A3Q7ERB9	Fe2OG dioxygenase domain-containing protein		1.776113956	0.916922565
150	A0A3Q7IW55	Uncharacterized protein		0.501052461	0.43413644
151	A0A3Q7J3C7	Uncharacterized protein	101262562	0.889860563	0.815116206
152	A0A3Q7EMI1	Uncharacterized protein		0.889876168	0.793979833
153	A0A3Q7JP52	Stress-response A/B barrel domain-containing protein	101249327	0.677807003	0.4904385
154	A0A3Q7ICC4	Uncharacterized protein	101252232	1.348529149	0.65327044
155	A0A3Q7FMY7	Pyruvate dehydrogenase E1 component subunit beta		0.610948528	0.415900273
156	A0A3Q7ED53	YTH domain-containing protein	101253713	0.419064659	0.34343131
157	A0A3Q7FRG4	Uncharacterized protein		1.006301109	0.522125961
158	A0A3Q7GVD6	Peroxidase	101261825	0.671154299	0.408322018
159	A0A3Q7IZK1	Metallophos domain-containing protein	101259706	0.459666055	0.436331367
160	A0A3Q7HFR4	Citrate synthase	101258079	0.466346795	0.366511528
161	A0A3Q7FPJ2	Uncharacterized protein	101254053	0.409604565	0.33598369
162	A0A3Q7J3V4	Uncharacterized protein	101246693	0.419366641	0.354280546
163	A0A3Q7FN40	AAA domain-containing protein		0.39895286	0.26856976
164	A0A3Q7FY02	Uncharacterized protein	101252344	0.404629759	0.328406797
165	Q94FW7	Heme oxygenase 1	HO1	0.451655857	0.333418857
166	A0A3Q7G5T4	Xylulose kinase	101244576	0.508753851	0.356209048
167	A0A3Q7ERJ1	Ribosome biogenesis protein BOP1 homolog		0.311468563	0.266499337
168	A0A3Q7GLX5	Uncharacterized protein	101248580	1.593410579	1.052213913
169	A0A3Q7F0H8	Uncharacterized protein	101256549	0.449059955	0.418473229

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
170	A0A3Q7GDD1	Cysteine--tRNA ligase		0.415284715	0.287939074
171	A0A3Q7IIR5	Non-specific lipid-transfer protein		1.310825189	0.793950711
172	A0A3Q7IUU2	Pyruvate decarboxylase	101247173	0.507436564	0.439113995
173	A0A3Q7GLX3	3-phosphoshikimate 1-carboxyvinyltransferase	101265440	0.340116525	0.314303217
174	A0A3Q7EI94	Protein transport protein SEC23	101255531	0.444938985	0.337608912
175	A0A3Q7EYI3	Fe2OG dioxygenase domain-containing protein		0.965408632	0.487732266
176	A0A3Q7J2X5	Uncharacterized protein	101249609	1.128944943	0.895298023
177	A0A3Q7G727	Uncharacterized protein	101261114	1.418221984	0.524966365
178	A0A3Q7JEN7	Uncharacterized protein	101252471	0.525869704	0.281229581
179	K4CRI8	Glutathione transferase	101265268	0.997871817	0.647797796
180	A0A3Q7HJ18	Uncharacterized protein	101249389	1.171756902	0.29760101
181	A0A3Q7I1E3	Uncharacterized protein		0.414673489	0.278260226
182	A0A3Q7JX81	Glycosyltransferase	101248655	0.709779775	0.318599972
183	A0A3Q7F2D3	SH3 domain-containing protein		0.462457778	0.414633979
184	A0A3Q7EEW3	Uncharacterized protein	101263745	0.733048068	0.269956811
185	A0A3Q7FWX0	Beta_elim_lyase domain-containing protein	101247807	0.37985624	0.3332314
186	A0A3Q7FXM4	BRO1 domain-containing protein	101245450	0.454880677	0.366363939
187	A0A3Q7I790	Glutathione transferase		1.541941522	1.341697624
188	P27056	Non-specific lipid-transfer protein 1	TSW12	1.5668486	1.067114196
189	H1AC31	Alpha-L-arabinofuranosidase/beta-D-xylosidase	SIArf	0.750136431	0.428369165
190	A0A3Q7G6N7	SCP2 domain-containing protein	101254480	0.944334923	0.342540641
191	A0A3Q7FF64	Uncharacterized protein	101246315	2.008052742	0.739557471
192	A0A3Q7FJX9	Endo-1,3(4)-beta-glucanase	101257148	0.635852589	0.421721986
193	A0A3Q7FQ43	Pyruvate dehydrogenase E1 component subunit beta		0.387153015	0.319621042
194	A0A3Q7I7K7	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	PFP-BETA	0.79183301	0.318356286
195	A0A3Q7HZL2	SHSP domain-containing protein		1.02449611	0.955020448
196	A0A3Q7HW58	GMP synthase (glutamine-hydrolyzing)		0.371753903	0.338559862
197	A0A3Q7HYN1	Glutathione transferase		2.399788438	1.613204495

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
198	A0A3Q7GZJ6	Inositol-tetrakisphosphate 1-kinase	101262819	0.9663497	0.637214121
199	A0A3Q7HZN7	ADF-H domain-containing protein	101264752	0.333812699	0.310025532
200	A0A3Q7F895	Aldehyde dehydrogenase		0.382993928	0.293102401
201	A0A3Q7GM89	Uncharacterized protein	101252396	0.874526117	0.685044461
202	A0A3Q7E6Y7	Eukaryotic translation initiation factor 6	EIF6	0.527839808	0.453740192
203	A0A3Q7EYV7	Uncharacterized protein		1.497808405	1.041597659
204	P46301	40S ribosomal protein S25	RPS25	0.385858525	0.284138604
205	A0A3Q7FYJ2	Uncharacterized protein	101262709	0.37873231	0.272809491
206	A0A3Q7HSP3	Uncharacterized protein	101268303	1.885842651	1.073268854
207	Q9FVH0	Expansin	EXPA8	1.146542893	0.712454107
208	A0A3Q7IPN0	Factor independent urate hydroxylase		0.70962005	0.456584632
209	A0A3Q7GSA6	Epimerase domain-containing protein		0.548257703	0.389130076
210	A0A3Q7I8Z3	3-isopropylmalate dehydratase		1.520087211	1.343610625
211	A0A3Q7IKQ0	Uncharacterized protein		1.143498211	0.580398133
212	A0A3Q7G2J1	DUF4057 domain-containing protein	101260128	0.861049332	0.454867734
213	A0A3Q7GNC0	Uncharacterized protein		0.462092467	0.403632736
214	A0A3Q7IQC3	Glycerol-3-phosphate dehydrogenase		0.601892229	0.451889841
215	A0A3Q7F0L7	AAA domain-containing protein	101266596	0.37262878	0.304132012
216	A0A3Q7FL61	Pectinesterase	101247796	0.837916338	0.611392742
217	A0A3Q7IMV8	Uncharacterized protein	101254438	1.270283633	1.262767541
218	A0A3Q7G8C1	Uncharacterized protein	101261513	0.435633969	0.428320983
219	A0A3Q7F6F7	PB1 domain-containing protein		0.372012568	0.332309165
220	A0A3Q7FPY3	Quinolinate synthase	101246910	0.360348313	0.345640451
221	A0A3Q7H283	Abhydrolase_3 domain-containing protein	101259332	0.298763116	0.277736582
222	A0A3Q7EII7	Non-specific lipid-transfer protein	101265675	0.629375916	0.347510106
223	A0A3Q7HXJ8	Bet_v_1 domain-containing protein		0.819360264	0.687737597
224	A0A3Q7J4A1	Uncharacterized protein	101252059	1.074668707	0.510359627
225	A0A3Q7GNS1	Translocase of chloroplast		0.444065197	0.405173461
226	A0A3Q7GMX1	Uncharacterized protein		0.839963708	0.414345858

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
227	A0A3Q7F1Z4	Uncharacterized protein		0.502129366	0.402351311
228	K4D5L3	Uncharacterized protein	101244731	3.161564941	1.871809003
229	A0A3Q7EGN4	Peroxidase		0.884015005	0.617816047
230	A0A3Q7FJH7	UMP kinase		0.597891729	0.43495138
231	A0A3Q7FKF3	Eukaryotic translation initiation factor 5B		1.926675399	1.140891184
232	A0A3Q7JB49	Uncharacterized protein		0.845605793	0.358658739
233	A0A3Q7G2E7	Acyl-coenzyme A oxidase	101265227	0.768247019	0.302880101
234	A0A3Q7EWM0	Coatomer subunit epsilon		0.446957998	0.377302232
235	A0A3Q7JET2	Uncharacterized protein	101265715	0.509800659	0.427296295
236	A0A3Q7HRA4	Abhydrolase_2 domain-containing protein	101264846	1.469628448	1.208351338
237	A0A3Q7FP93	Uncharacterized protein	101259110	0.875262823	0.373698442
238	A0A3Q7J4K1	Glutathione transferase		1.289666913	0.751680765
239	A0A3Q7F2L3	Uncharacterized protein		1.394774445	0.586593922
240	A0A3Q7EL62	Uncharacterized protein	101252222	0.543073228	0.302331743
241	A0A3Q7GNH0	Glycosyltransferase		0.810254813	0.46867012
242	A0A3Q7IMG0	4-hydroxy-tetrahydrodipicolinate synthase		0.582734849	0.356354744
243	A0A3Q7JBE7	Uncharacterized protein		1.114839097	0.649435365
244	A0A3Q7E959	Uncharacterized protein	101262448	0.348749818	0.273816516
245	Q2MI69	DNA-directed RNA polymerase subunit alpha	rpoA	0.435511699	0.311233225
246	A0A3Q7GCR5	Uncharacterized protein	101257641	0.827271333	0.492033535
247	A0A3Q7J098	Uncharacterized protein	101244412	0.450439334	0.385337209
248	A0A3Q7EK55	Epimerase domain-containing protein		0.488756652	0.332377497
249	A0A3Q7HBA1	Uncharacterized protein	101259456	0.747324893	0.557645192
250	A0A3Q7H3R3	Uncharacterized protein	101255604	0.978633394	0.648328249
251	Q9FT20	Glutathione transferase	543816	1.12688868	0.466523409
252	K4CB47	Hydroxycinnamoyl-CoA:quinat hydroxycinnamoyl transferase	HQT	0.561637183	0.451617776
253	A0A3Q7H4X7	Uncharacterized protein		0.904319998	0.408734219
254	Q38JU2	Cryptochrome DASH, chloroplastic/mitochondrial	CRYD	0.792642137	0.663984277

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
255	A0A3Q7IEJ1	Uncharacterized protein	101260362	0.61526685	0.373482543
256	K4BVV7	Uncharacterized protein	101255790	0.709033189	0.608867898
257	A0A3Q7I8T9	Cysteine proteinase inhibitor	101243640	1.362961483	0.927497039
258	O48540	Mannan endo-1,4-beta-mannosidase 1	MAN1	1.631929867	0.735719659
259	A0A3Q7EX00	PKS_ER domain-containing protein	101245999	0.599458833	0.281052241
260	A0A3Q7GNF0	Usp domain-containing protein	101256975	0.468782866	0.356463837
261	A0A3Q7FBJ8	Uncharacterized protein		0.988886077	0.50691757
262	A0A3Q7EEE3	Usp domain-containing protein	101256409	0.46640589	0.442449415
263	A0A3Q7H7J8	Knot1 domain-containing protein		2.378303006	1.3608589
264	A0A3Q7F755	Thioredoxin	101245904	0.412255273	0.359849739
265	A0A3Q7GK42	Uncharacterized protein	101260051	2.235365076	2.144784241
266	A0A3Q7ES43	40S ribosomal protein S27		0.637595721	0.326200172
267	A0A3Q7GXD2	Uncharacterized protein	101266327	0.379170539	0.293216577
268	A0A3Q7J5K3	GOLD domain-containing protein	104644860	0.551321266	0.287106445
269	A0A3Q7FHA2	Uncharacterized protein	101259411	1.071057957	0.580872859
270	A0A3Q7J5N1	Purple acid phosphatase		0.399255095	0.289563353
271	A0A3Q7EI52	DLH domain-containing protein		0.855816411	0.609098421
272	A0A3Q7IL86	Uncharacterized protein		3.085373842	1.854125901
273	A0A3Q7G0U4	Leuk-A4-hydro_C domain-containing protein		0.369235298	0.316928567
274	A0A3Q7HR05	Uncharacterized protein	101253812	0.344685787	0.301963166
275	A0A3Q7FXQ9	Bet_v_1 domain-containing protein	101268175	0.724903959	0.563000621
276	A0A3Q7FV47	Uncharacterized protein	101251569	0.77039372	0.307489554
277	A0A3Q7HYH9	Bet_v_1 domain-containing protein	101248703	0.747453612	0.686633691
278	A0A3Q7IQ29	Pectinesterase	101245713	0.534036191	0.431663601
279	A0A3Q7ILD8	Uncharacterized protein		1.162646966	0.323165535
280	A0A3Q7IPM1	Knot1 domain-containing protein		1.422737402	0.813129532
281	A0A3Q7JPL2	ABC transporter domain-containing protein	101254359	0.306582596	0.306509014
282	A0A3Q7GZE4	Uncharacterized protein	101245261	1.166786993	0.451525038
283	A0A3Q7I9L2	COP9 signalosome complex subunit 6	101259087	0.857838909	0.54799887

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
284	A0A3Q7G6T1	SHSP domain-containing protein	101261225	1.809985354	0.864422454
285	A0A3Q7FS42	Oleosin	101263398	1.714245518	0.714072557
286	A0A3Q7FFN0	Caffeoyl-CoA O-methyltransferase	101266196	0.830816081	0.495927304
287	K4B3K5	Uncharacterized protein	101259487	1.516809955	1.219290425
288	A0A3Q7GVI0	Uncharacterized protein	101257273	0.532635753	0.323714438
289	A0A3Q7ESE1	Uncharacterized protein		0.447170258	0.300787475
290	A0A3Q7EQL3	GOLD domain-containing protein		0.540894163	0.297327075
291	A0A3Q7IU56	Uncharacterized protein		0.341803161	0.331412926
292	A0A3Q7FTF0	GST N-terminal domain-containing protein		1.15114639	0.773953999
293	A0A3Q7FMU9	Uncharacterized protein	101262295	2.315888546	1.062655608
294	A0A3Q7H1N1	4HBT domain-containing protein		0.353488743	0.277302388
295	A0A3Q7GA04	MFS domain-containing protein		0.392281635	0.276374895
296	A0A3Q7HVE2	Uncharacterized protein	101260960	0.628762062	0.517657224
297	A0A3Q7IPR0	Uncharacterized protein	101250470	0.956785328	0.549656483
298	A0A3Q7GXI4	Oleosin	101249653	1.789450124	0.827218509
299	A0A3Q7HVB5	UDP-glucuronate decarboxylase		0.354173041	0.274549835
300	F8SS64	LAX3 protein	100736478	0.475581479	0.34009476
301	A0A3Q7GXY1	Beta-galactosidase	101258163	0.52014876	0.449224462
302	A0A3Q7GPX9	4-coumarate--CoA ligase		1.053242979	0.504323783
303	Q5WM33	Alpha-dioxygenase 2	alpha-DOX2	0.507902322	0.316364366
304	A0A3Q7GP59	Purple acid phosphatase	101260420	0.92673186	0.705098053
305	A0A3Q7JE72	Cytochrome b5 heme-binding domain-containing protein		0.845757426	0.506647152
306	A0A3Q7GNI7	ADH_N domain-containing protein		0.423350767	0.316081837
307	A0A3Q7ET70	Fe2OG dioxygenase domain-containing protein	101253836	1.184484604	0.56007886
308	K4BKG3	UBC2	101247803	0.371117484	0.358174128
309	A0A3Q7IKK6	Uncharacterized protein	101250176	1.799456343	0.901691689
310	A0A3Q7EJ67	Methyltransferase	101252433	0.791485513	0.371218526
311	A0A3Q7FV90	Uncharacterized protein	101256744	1.519938441	0.730774796

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
312	A0A3Q7IZ76	Uncharacterized protein		0.391720927	0.317106972
313	A0A3Q7GM48	Uncharacterized protein	101258154	0.308486555	0.276924774
314	P38416	Linoleate 9S-lipoxygenase B	LOX1.2	1.124953226	0.348253289
315	A0A3Q7F7X3	AAI domain-containing protein		1.531410345	0.64178048
316	A0A3Q7J3S5	Translation machinery-associated protein 22	101244257	0.47801412	0.397790686
317	A0A3Q7F0N6	Uncharacterized protein		0.336619306	0.310561493
318	A0A3Q7FY89	Conserved oligomeric Golgi complex subunit 3		0.707676011	0.459471495
319	A0A3Q7F3J3	Uncharacterized protein		0.544191092	0.272979445
320	A0A3Q7FQF9	Iron-sulfur cluster assembly protein	101252070	0.48589223	0.35356067
321	A0A3Q7IC19	Uncharacterized protein		0.798136392	0.319352838
322	A0A3Q7ESX1	Peroxidase		0.399187292	0.282380088
323	A0A3Q7GHA1	Fe2OG dioxygenase domain-containing protein	101244471	0.68223326	0.627025925
324	A0A3Q7G0R2	Lipase	101250773	0.863709395	0.383357191
325	A0A3Q7ER65	Uncharacterized protein	101267654	0.412768009	0.294628025
326	A0A3Q7GVC7	Uncharacterized protein		0.804474632	0.722620445
327	A0A3Q7F9Y0	Uncharacterized protein	101265497	1.574970729	0.753165468
328	A0A3Q7H729	Glycosyltransferase	101254400	1.535799707	1.050144968
329	A0A3Q7F0Y5	tRNA (guanine-N(7)-)-methyltransferase	101260600	0.358067282	0.310191462
330	A0A3Q7F2F7	Uncharacterized protein		0.826847335	0.689138329
331	A0A3Q7EN32	Peptidase A1 domain-containing protein	101262571	0.967204235	0.913933346
332	A0A3Q7JS00	Uncharacterized protein		0.310438597	0.291962673
333	O04161	Ammonium transporter 1 member 2	AMT1-2	1.441739921	1.204598117
334	A0A3Q7JBA6	Uncharacterized protein	101254980	0.813782839	0.404357308
335	A0A3Q7FJ81	Uncharacterized protein		0.71961782	0.427488726
336	A0A3Q7HC92	Uncharacterized protein	101259649	0.872136547	0.749958754
337	K4CCH1	Uncharacterized protein		1.775211075	1.491066113
338	A0A3Q7HPE0	Uncharacterized protein	101255319	0.600493653	0.317167843
339	A0A3Q7I752	RF_PROK_I domain-containing protein	101256123	0.916110406	0.764906258
340	A0A3Q7EKF5	Phytocyanin domain-containing protein	101254836	1.895639596	1.677686011

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
341	A0A3Q7GEM1	X8 domain-containing protein	101245458	0.296633766	0.281755696
342	A0A3Q7J5F8	Uncharacterized protein	101263189	0.621623118	0.577156015
343	A0A3Q7I7B5	Thiamine diphosphokinase		0.64024872	0.440042802
344	A0A3Q7J1E2	Uncharacterized protein	101253556	1.329150017	0.628036429
345	A0A3Q7HDZ5	3-oxoacyl-[acyl-carrier-protein] synthase	101264230	0.60710424	0.324429282
346	P93220	Ethylene-responsive late embryogenesis-like protein	ER5	1.252036878	0.941754859
347	A0A3Q7FIC4	Uncharacterized protein	101263088	0.60983047	0.386089105
348	K4CHA2	AAI domain-containing protein	101256608	1.349550791	0.659603593
349	A0A3Q7H5F1	Uncharacterized protein		1.218156914	1.213877186
350	A0A3Q7HHE8	Hydrolase_4 domain-containing protein	101244873	1.043019324	0.649822873
351	A0A3Q7HSQ3	Catechol oxidase	101261257	0.726192069	0.631555195
352	A0A3Q7H7C6	Phytocyanin domain-containing protein		1.155693616	1.142523694
353	A0A3Q7I610	ABC transporter domain-containing protein		0.516070088	0.335223115
354	A0A3Q7H2A1	RRM domain-containing protein		1.391976115	0.820915438
355	A0A3Q7GWI7	Uncharacterized protein		1.274086906	0.74798314
356	A0A3Q7EHH6	Uncharacterized protein		0.337976036	0.286643033
357	A0A3Q7HTF7	Protein kish	101253694	0.423406079	0.338127859
358	A0A3Q7GDX0	CarbpepA_inh domain-containing protein		0.759820074	0.743257721
359	A0A3Q7FXU9	Uncharacterized protein	101267107	0.411623192	0.379272871
360	A0A3Q7FJB6	Non-specific serine/threonine protein kinase		0.82487583	0.535642362
361	A0A3Q7JE52	Glutathione transferase	101266706	0.998929354	0.720713645
362	A0A3Q7H9Q9	Glycosyltransferase	101258876	0.553155174	0.382153978
363	A0A3Q7FJJ6	AB hydrolase-1 domain-containing protein	101250966	0.739053363	0.663842802
364	A0A3Q7I9R2	Peroxidase	101244682	1.009042675	0.293409424
365	A0A3Q7JEB1	Uncharacterized protein		0.574572243	0.319015143
366	A0A3Q7GCL5	Gamma-glutamylcyclotransferase family protein	101245930	1.0690504	0.538505915
367	A0A3Q7G0T9	Adenylate kinase	101254478	0.882155457	0.589496905
368	A0A3Q7J256	Cupin type-1 domain-containing protein		1.748543515	0.740605437
369	K4DEY3	Protein NEOXANTHIN-DEFICIENT 1	NXD1	0.417941431	0.309892843

	Protein ID	Description	Gene	Log2FC before CNT	Log2FC after CNT
370	A0A3Q7FDZ5	HMA domain-containing protein	101263877	0.811161121	0.382872524
371	A0A3Q7I2J3	Uncharacterized protein		0.974529312	0.843481425
372	A0A3Q7FM99	Uncharacterized protein		0.564800887	0.360450877
373	A0A3Q7JYU7	Usp domain-containing protein		0.683176228	0.61227171
374	A0A3Q7ITX2	Uncharacterized protein	101264147	2.411692309	1.218299056
375	A0A3Q7GL55	Lactamase_B domain-containing protein	101268762	0.418316786	0.281418734
376	A0A3Q7GC64	Thioredoxin domain-containing protein		1.213384474	0.595147471
377	A0A3Q7FWX7	Isopentenyl phosphate kinase		0.683957333	0.614930538
378	A0A3Q7HGR3	Uncharacterized protein	101248579	0.515149334	0.446481482
379	A0A3Q7G0M3	Uncharacterized protein	101260924	0.860303802	0.398084366
380	A0A3Q7H119	Uncharacterized protein	104648037	0.619519723	0.420802989
381	A0A3Q7IE91	N-acetyltransferase domain-containing protein	101249387	1.113608809	0.776419795
382	A0A3Q7HGY7	Uncharacterized protein		0.728559197	0.616804095
383	A0A3Q7J9W6	AAA domain-containing protein		0.60928218	0.379066399

Table S9. List of integrated genes and proteins with matched dysregulation in tomato seedlings treated with salt compared with control.

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
1	Solyc01g006300.3	A0A3Q7E7T2	Peroxidase	-3.054190904	0.083500626	Down	-1.413877505	0.001947063	Down
2	Solyc01g060020.3	A0A3Q7EEZ8	Uncharacterized protein	-4.331173926	0.004977136	Down	-1.50562579	4.89782E-07	Down
3	Solyc01g066680.3	A0A3Q7EFE3	Uncharacterized protein	-2.012749886	0.00079864	Down	-1.443682568	2.89326E-08	Down
4	Solyc01g097270.3	A0A3Q7EMC4	Uncharacterized protein	-2.499710767	1.96683E-05	Down	-1.433080651	4.25122E-07	Down
5	Solyc01g109140.3	Q9FPM6	9-divinyl ether synthase	-5.350581468	0.023324749	Down	-1.478091606	6.12641E-07	Down
6	Solyc09g097780.3	A0A3Q7IA04	Uncharacterized protein	-1.85749389	5.13574E-05	Down	-1.352114394	2.06025E-06	Down
7	Solyc03g096540.3	A0A3Q7FMC9	PLAT domain-containing protein	-8.207232517	0.037896725	Down	-1.801434515	1.84363E-06	Down
8	Solyc07g006570.3	A0A3Q7H6Y1	Uncharacterized protein	-3.280871971	0.05484347	Down	-1.232951982	2.87382E-07	Down
9	Solyc05g055990.3	A0A3Q7GN80	Uncharacterized protein	-1.30958553	0.001542417	Down	-1.300372152	3.43222E-07	Down
10	Solyc04g071615.1	A0A3Q7GZ60	Uncharacterized protein	-1.758460309	0.000135585	Down	-1.198107202	0.003710024	Down
11	Solyc08g029000.3	A0A3Q7HN01	Lipoxygenase	-8.271302707	0.000545611	Down	-1.948039587	2.42459E-08	Down
12	Solyc08g079870.2	A0A3Q7HVI4	Uncharacterized protein	-3.367117649	0.131176771	Down	-1.470015135	6.23401E-07	Down
13	Solyc08g079900.2	A0A3Q7HTM2	Uncharacterized protein	-3.340666705	0.034539437	Down	-1.443432377	4.1683E-07	Down
14	Solyc08g080670.2	A0A3Q7IQ03	Uncharacterized protein	-5.518000883	1.36361E-07	Down	-2.184909872	5.98987E-08	Down
15	Solyc10g055810.2	Q05538	Basic 30 kDa endochitinase	-2.06959118	1.28244E-05	Down	-1.39879438	8.38646E-07	Down
16	Solyc11g005480.2	A0A3Q7IP30	Alginate_lyase2 domain-containing protein	-4.459662926	0.015230572	Down	-2.058242904	1.22851E-07	Down
17	Solyc02g077080.3	A0A3Q7F572	PMR5N domain-containing protein	-1.567297035	4.61664E-05	Down	-1.180126821	9.43397E-07	Down
18	Solyc01g006370.3	A0A3Q7E8V3	1,3-beta-glucan synthase	1.098818655	0.000187871	Up	1.03559206	4.08759E-06	Up
19	Solyc01g006580.3	A0A3Q7ERB9	Fe2OG dioxygenase domain-containing protein	1.580395706	0.018617233	Up	1.737365486	2.42459E-08	Up
20	Solyc01g103920.3	A0A3Q7EQF6	Ferredoxin	4.089942183	0.01332136	Up	1.179172756	0.00151292	Up
21	Solyc09g010450.1	A0A3Q7ITX2	Uncharacterized protein	1.213815077	0.008796323	Up	2.046460382	9.6111E-08	Up
22	Solyc09g097850.1	A0A3Q7I8T9	Cysteine proteinase inhibitor	1.503519255	0.002285178	Up	1.29631809	6.99476E-07	Up

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
23	Solyc09g098120.3	A0A3Q7I933	Uncharacterized protein	4.436966819	0.15904264	Up	1.230002085	8.38799E-07	Up
24	Solyc03g082420.3	Q95661	Small heat shock protein, chloroplastic	2.348928489	0.024207657	Up	1.176188087	2.72595E-06	Up
25	Solyc03g096040.3	A0A3Q7FPK3	Peroxiredoxin	5.396605197	0.144040581	Up	1.749810329	5.5456E-08	Up
26	Solyc03g116120.2	A0A3Q7FTF0	GST N-terminal domain-containing protein	3.832259409	0.026728567	Up	1.014982979	8.85656E-05	Up
27	Solyc03g116390.3	E1AZA3	Late embryogenesis abundant protein	6.429885858	0.048730542	Up	1.7186879	1.93873E-07	Up
28	Solyc07g017570.2	K4CCH1	Uncharacterized protein	1.40366599	0.062503839	Up	1.645454308	3.91282E-07	Up
29	Solyc05g053620.3	A0A3Q7GK42	Uncharacterized protein	3.107024786	0.119737123	Up	2.048704287	2.42459E-08	Up
30	Solyc04g007760.3	A0A3Q7FXQ4	Bet_v_1 domain-containing protein	3.472722192	0.01814977	Up	1.081815447	3.21323E-05	Up
31	Solyc04g079470.3	A0A3Q7GAG9	Uncharacterized protein	1.86898723	0.005451194	Up	1.215108384	1.93561E-06	Up
32	Solyc04g081900.3	A0A3Q7GC64	Thioredoxin domain-containing protein	2.624142627	0.003976713	Up	1.061291787	5.60778E-05	Up
33	Solyc08g014000.3	P38415	Linoleate 9S-lipoxygenase A	2.423087446	0.05683688	Up	1.469365192	2.42459E-08	Up
34	Solyc08g014490.1	A0A3Q7HJ18	Uncharacterized protein	4.2365013	0.003186921	Up	1.131487594	2.18054E-07	Up
35	Solyc08g067520.2	A0A3Q7IKQ0	Uncharacterized protein	1.259418375	0.024883689	Up	1.093863938	2.33963E-05	Up
36	Solyc10g005060.3	A0A3Q7I9E2	Uncharacterized protein	1.603986718	0.00038126	Up	1.023045369	2.70086E-07	Up
37	Solyc10g017510.3	A0A3Q7ICC4	Uncharacterized protein	2.065918837	0.086399847	Up	1.301972781	3.29196E-08	Up
38	Solyc11g010520.1	K4D5L3	Uncharacterized protein	5.977230369	0.157468148	Up	2.636858614	6.36888E-07	Up
39	Solyc11g069280.2	A0A3Q7J086	Uncharacterized protein	4.419572185	0.01717087	Up	1.6240877	4.98781E-07	Up
40	Solyc11g071470.1	A0A3Q7J1E2	Uncharacterized protein	2.316065311	2.70841E-05	Up	1.259863315	2.45897E-06	Up
41	Solyc11g072200.2	A0A3Q7J1R5	Fe2OG dioxygenase domain-containing protein	4.203102693	0.127186689	Up	1.324529616	3.91282E-07	Up
42	Solyc02g067750.3	A0A3Q7F088	Carbonic anhydrase	3.097897114	0.141347237	Up	1.369912149	1.84408E-05	Up
43	Solyc02g085590.3	A0A3Q7FV90	Uncharacterized protein	5.816394484	0.069391112	Up	1.377675678	1.15018E-07	Up
44	Solyc06g075990.3	A0A3Q7H3P0	VOC domain-containing protein	5.608809093	0.055467648	Up	1.252848722	0.000262151	Up
45	Solyc06g076570.2	A0A3Q7H3Z8	Uncharacterized protein	1.328997023	0.00360542	Up	1.630081891	2.42459E-08	Up

Table S10. List of integrated genes and proteins with unmatched dysregulation in tomato seedlings treated with salt compared with control.

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
1	Solyc09g025220.2	A0A3Q7I2A5	Uncharacterized protein	-3.197204187	0.145103106	Down	3.420141757	5.09537E-08	Up
2	Solyc09g090900.3	A0A3Q7I8Z3	3-isopropylmalate dehydratase	-1.091909638	0.110440518	Down	1.100259402	1.9115E-06	Up
3	Solyc10g084960.2	A0A3Q7IMY1	Glutathione transferase	-3.102048153	0.087345911	Down	1.736546885	3.72499E-08	Up
4	Solyc02g086880.3	Q5NE18	Formate dehydrogenase, mitochondrial	-1.705710965	0.023063617	Down	1.260868895	2.21529E-06	Up
5	Solyc06g036110.1	A0A3Q7HLU6	C2 domain-containing protein	-1.227317815	0.10819973	Down	1.203448448	1.45847E-07	Up
6	Solyc06g069045.1	Q9FT20	Glutathione transferase	-3.012895955	0.017824778	Down	1.076532044	3.69796E-06	Up
7	Solyc06g071060.2	A0A3Q7HU54	Uncharacterized protein	-1.122213935	0.003615244	Down	1.161773519	4.24822E-08	Up
8	Solyc01g088280.2	A0A3Q7EJ56	Uncharacterized protein	2.496044777	0.07603539	Up	-1.215288728	1.41578E-06	Down
9	Solyc01g107520.3	A0A3Q7FCJ1	Uncharacterized protein	1.186706163	0.118494863	Up	-1.389076357	5.05306E-06	Down
10	Solyc03g005910.3	A0A3Q7G1C2	Uncharacterized protein	3.055157911	0.000172303	Up	-1.201492294	8.09645E-06	Down
11	Solyc03g034390.1	A0A3Q7FG81	AAI domain-containing protein	3.781628178	0.13626999	Up	-1.498740115	1.49085E-06	Down
12	Solyc03g114560.3	A0A3Q7FQH2	Uncharacterized protein	2.687888023	0.106648246	Up	-1.111823083	4.94087E-07	Down
13	Solyc07g005100.3	A0A3Q7H377	GH18 domain-containing protein	2.218379177	0.052581924	Up	-1.668182196	2.63519E-08	Down
14	Solyc12g006140.2	A0A3Q7J1V3	Chlorophyll a-b binding protein, chloroplastic	1.196099675	0.161091596	Up	-1.002956418	7.48681E-07	Down
15	Solyc12g042500.2	A0A3Q7J9H2	Uncharacterized protein	2.646080547	0.001434754	Up	-2.004726475	5.32719E-07	Down
16	Solyc12g056710.2	A0A3Q7JB69	Uncharacterized protein	1.658702273	0.040363118	Up	-1.070275738	3.60146E-07	Down
17	Solyc04g007010.3	A0A3Q7FYR5	Bet_v_1 domain-containing protein	1.720654141	0.129294641	Up	-1.3096817	5.09537E-08	Down
18	Solyc04g007820.3	A0A3Q7FXS0	Bet_v_1 domain-containing protein	1.247393885	0.044521265	Up	-1.330541124	1.45847E-07	Down
19	Solyc10g075150.2	A0A3Q7IJL2	AAI domain-containing protein	2.83907951	0.079520049	Up	-1.179524044	1.16775E-05	Down
20	Solyc10g079860.2	A0A3Q7IKF2	Uncharacterized protein	2.565163234	0.092643009	Up	-1.713670054	9.11306E-08	Down
21	Solyc11g069880.2	A0A3Q7J0J3	Uncharacterized protein	2.538346639	0.027094097	Up	-2.004964355	9.11306E-08	Down

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
22	Solyc02g071720.3	A0A3Q7F4I2	Uncharacterized protein	2.354570187	0.019328521	Up	-1.234844187	4.34709E-06	Down
23	Solyc02g082930.3	Q05540	Acidic 27 kDa endochitinase	3.759834377	0.040051125	Up	-1.784124343	7.0341E-08	Down

Table S11. List of integrated genes and proteins with matched dysregulation in tomato seedlings treated with salt in the presence of CNT compared with control.

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
1	Solyc01g006300.3	A0A3Q7E7T2	Peroxidase	-2.217631977	0.190272365	Down	-1.032346241	0.011691727	Down
2	Solyc01g060020.3	A0A3Q7EEZ8	Uncharacterized protein	-4.185877448	0.008437392	Down	-1.677425393	5.42513E-07	Down
3	Solyc01g066680.3	A0A3Q7EFE3	Uncharacterized protein	-1.97034457	0.001352744	Down	-1.495281565	7.02129E-08	Down
4	Solyc01g097270.3	A0A3Q7EMC4	Uncharacterized protein	-2.361660761	4.77375E-05	Down	-1.590851353	5.24184E-07	Down
5	Solyc01g109140.3	Q9FPM6	9-divinyl ether synthase	-6.625131604	0.010325748	Down	-1.691517899	5.42513E-07	Down
6	Solyc09g097780.3	A0A3Q7IA04	Uncharacterized protein	-1.576396373	0.000282275	Down	-1.132422056	1.26225E-05	Down
7	Solyc03g096540.3	A0A3Q7FMC9	PLAT domain-containing protein	-8.246618525	0.045845041	Down	-1.831338601	2.9065E-06	Down
8	Solyc07g006570.3	A0A3Q7H6Y1	Uncharacterized protein	-2.387974466	0.175412175	Down	-1.068467027	1.38677E-06	Down
9	Solyc08g029000.3	A0A3Q7HN01	Lipoxygenase	-6.952506412	0.001764247	Down	-2.10230024	4.03789E-08	Down
10	Solyc08g079900.2	A0A3Q7HTM2	Uncharacterized protein	-2.262496453	0.139557905	Down	-1.498906615	6.50055E-07	Down
11	Solyc08g080650.2	A0A3Q7HVV0	Uncharacterized protein	-3.308711596	8.94354E-06	Down	-1.12596013	1.07529E-06	Down
12	Solyc08g080670.2	A0A3Q7IQ03	Uncharacterized protein	-4.876263187	7.47039E-07	Down	-2.504286882	7.02129E-08	Down
13	Solyc10g055800.2	A0A3Q7IHS3	Chitin-binding type-1 domain-containing protein	-1.857860447	2.03802E-05	Down	-1.193192486	4.6447E-06	Down
14	Solyc10g055810.2	Q05538	Basic 30 kDa endochitinase	-2.250146891	1.15433E-05	Down	-1.590421581	7.13278E-07	Down
15	Solyc11g005480.2	A0A3Q7IP30	Alginate_lyase2 domain-containing protein	-3.258963435	0.073243872	Down	-2.129023972	2.5209E-07	Down
16	Solyc02g077080.3	A0A3Q7F572	PMR5N domain-containing protein	-1.560032228	8.07759E-05	Down	-1.416597822	5.89969E-07	Down

17	Solyc01g103920.3	A0A3Q7EQF6	Ferredoxin	3.517648381	0.034661038	Up	1.348492539	0.000798427	Up
18	Solyc03g082420.3	Q95661	Small heat shock protein, chloroplastic	1.846757622	0.079025426	Up	1.700461637	5.24184E-07	Up
19	Solyc07g017570.2	K4CCH1	Uncharacterized protein	1.833844268	0.024794295	Up	1.351897996	2.83352E-06	Up
20	Solyc07g041920.3	A0A3Q7H8G2	Uncharacterized protein	5.029799848	0.000997174	Up	1.416053463	2.25463E-06	Up
21	Solyc05g052240.3	A0A3Q7HFP3	Chalcone-flavonone isomerase family protein	2.787631155	0.007720133	Up	1.055556505	0.000437876	Up
22	Solyc04g079470.3	A0A3Q7GAG9	Uncharacterized protein	1.131197754	0.072318928	Up	1.218612233	3.25197E-06	Up
23	Solyc06g066800.2	A0A3Q7GXX0	Uncharacterized protein	2.314412038	0.047961536	Up	1.193317672	6.82231E-05	Up
24	Solyc06g075990.3	A0A3Q7H3P0	VOC domain-containing protein	5.605673091	0.066420447	Up	1.379264842	0.00018269	Up
25	Solyc06g076570.2	A0A3Q7H3Z8	Uncharacterized protein	1.432984106	0.003182126	Up	1.78740271	4.71101E-08	Up

Table S12. List of integrated genes and proteins with unmatched dysregulation in tomato seedlings treated with salt in the presence of CNT compared with control.

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
1	Solyc09g025220.2	A0A3Q7I2A5	Uncharacterized protein	-4.853650176	0.040039358	Down	2.152118539	1.71292E-06	Up
2	Solyc06g036110.1	A0A3Q7HLU6	C2 domain-containing protein	-2.56148238	0.005129394	Down	1.05881088	6.71332E-07	Up
3	Solyc09g007020.2	A0A3Q7HXX1	Uncharacterized protein	3.452021486	0.168741429	Up	-1.680372862	2.64122E-07	Down
4	Solyc09g072700.3	A0A3Q7I500	Peroxidase	1.15396554	0.033851319	Up	-1.340905103	5.44729E-07	Down
5	Solyc07g005100.3	A0A3Q7H377	GH18 domain-containing protein	2.049933605	0.0793587	Up	-1.411660301	1.5422E-07	Down
6	Solyc12g042500.2	A0A3Q7J9H2	Uncharacterized protein	2.313822995	0.004792211	Up	-1.546750062	6.06282E-06	Down
7	Solyc04g054740.3	A0A3Q7G4W7	Inositol-3-phosphate synthase	2.335681479	0.000489256	Up	-1.003362076	5.33353E-07	Down
8	Solyc10g074440.2	A0A3Q7JDI3	Chitin-binding type-1 domain-containing protein	2.793068515	0.175475772	Up	-1.9966486	2.03695E-07	Down
9	Solyc10g079860.2	A0A3Q7IKF2	Uncharacterized protein	2.356258738	0.130477064	Up	-1.572162672	3.9305E-07	Down
10	Solyc11g069880.2	A0A3Q7J0J3	Uncharacterized protein	2.592205534	0.030796451	Up	-2.021555883	2.03695E-07	Down

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
11	Solyc02g082930.3	Q05540	Acidic 27 kDa endochitinase	3.279524793	0.068077656	Up	-1.271055286	1.23138E-06	Down
12	Solyc06g005780.1	A0A3Q7GRI9	AAI domain-containing protein	4.052943033	0.033383205	Up	-1.06728815	1.04967E-06	Down

Table S13. List of integrated genes and proteins with matched dysregulation in tomato seedlings treated with salt in the presence of graphene compared with control.

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
1	Solyc01g060020.3	A0A3Q7EEZ8	Uncharacterized protein	-3.93105027	0.010799133	Down	-1.802726154	9.30615E-08	Down
2	Solyc01g066680.3	A0A3Q7EFE3	Uncharacterized protein	-1.9851181	0.001202944	Down	-1.577069438	1.54507E-08	Down
3	Solyc01g097270.3	A0A3Q7EMC4	Uncharacterized protein	-2.30158043	5.88301E-05	Down	-1.733026095	7.56506E-08	Down
4	Solyc01g109140.3	Q9FPM6	9-divinyl ether synthase	-4.70244576	0.048324091	Down	-1.757534476	1.18997E-07	Down
5	Solyc09g097780.3	A0A3Q7IA04	Uncharacterized protein	-1.57336659	0.000240106	Down	-1.143941765	2.90414E-06	Down
6	Solyc03g096540.3	A0A3Q7FMC9	PLAT domain-containing protein	-7.85782933	0.049154309	Down	-1.811164526	8.69617E-07	Down
7	Solyc05g055990.3	A0A3Q7GN80	Uncharacterized protein	-1.32595824	0.001910846	Down	-1.391287117	1.22618E-07	Down
8	Solyc08g029000.3	A0A3Q7HN01	Lipoxygenase	-7.33305859	0.001299662	Down	-2.168789115	7.23196E-09	Down
9	Solyc08g078910.2	A0A3Q7HT35	Uncharacterized protein	-2.44220186	4.40133E-05	Down	-1.04868835	1.381E-05	Down
10	Solyc08g080650.2	A0A3Q7HVV0	Uncharacterized protein	-2.20711681	0.000108332	Down	-1.259022262	1.43754E-07	Down
11	Solyc08g080670.2	A0A3Q7IQ03	Uncharacterized protein	-4.81952501	1.28044E-06	Down	-2.555670473	1.84888E-08	Down
12	Solyc10g055800.2	A0A3Q7IHS3	Chitin-binding type-1 domain-containing protein	-1.27529298	0.000283409	Down	-1.372547578	5.15217E-07	Down
13	Solyc10g055810.2	Q05538	Basic 30 kDa endochitinase	-1.68946385	9.86766E-05	Down	-1.655511097	1.49052E-07	Down
14	Solyc11g005480.2	A0A3Q7IP30	Alginate_lyase2 domain-containing protein	-2.940284	0.098720485	Down	-2.114825688	7.06465E-08	Down
15	Solyc02g077080.3	A0A3Q7F572	PMR5N domain-containing protein	-1.33330865	0.000213006	Down	-1.481947545	1.21165E-07	Down

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
16	Solyc01g090120.3	A0A3Q7EKF5	Phytocyanin domain-containing protein	3.791058206	0.001572182	Up	1.103056289	0.000452377	Up
17	Solyc09g011490.3	A0A3Q7HYN1	Glutathione transferase	1.911712051	0.015613442	Up	1.447633911	1.89011E-07	Up
18	Solyc03g082420.3	Q95661	Small heat shock protein, chloroplastic	2.705089201	0.014300592	Up	1.487916764	2.60695E-07	Up
19	Solyc07g017570.2	K4CCH1	Uncharacterized protein	4.113640585	0.000160603	Up	1.186577223	1.76414E-06	Up
20	Solyc07g041920.3	A0A3Q7H8G2	Uncharacterized protein	6.938249719	0.000100156	Up	1.476008715	4.7364E-07	Up
21	Solyc07g052510.3	A0A3Q7HDZ4	Peroxidase	2.345459402	0.014199922	Up	1.028316014	5.64588E-05	Up
22	Solyc05g052240.3	A0A3Q7HFP3	Chalcone-flavonone isomerase family protein	1.933702822	0.03155009	Up	1.180643514	5.35866E-05	Up
23	Solyc05g053620.3	A0A3Q7GK42	Uncharacterized protein	3.97682512	0.057868505	Up	1.858963128	2.3349E-08	Up
24	Solyc04g011440.3	A0A3Q7FX57	Uncharacterized protein	1.526757714	0.028944709	Up	1.110090045	3.94428E-07	Up
25	Solyc04g079470.3	A0A3Q7GAG9	Uncharacterized protein	1.055260011	0.087397521	Up	1.074570797	2.00186E-06	Up
26	Solyc08g078695.1	O80432	Mitochondrial small heat shock protein	1.410969195	0.177355404	Up	1.912567187	2.1729E-08	Up
27	Solyc08g080480.3	A0A3Q7HVS4	AAI domain-containing protein	4.137206024	0.177422574	Up	1.667355243	1.46715E-05	Up
28	Solyc10g086100.2	A0A3Q7IMV8	Uncharacterized protein	2.162301219	0.035367533	Up	1.03448699	7.98879E-05	Up
29	Solyc11g066100.2	A0A3Q7IYI9	Uncharacterized protein	1.045579809	0.161200446	Up	1.111413472	2.39259E-06	Up
30	Solyc11g069280.2	A0A3Q7J086	Uncharacterized protein	6.493806557	0.002436488	Up	1.219849402	1.75936E-06	Up
31	Solyc02g084800.3	A0A3Q7F7C4	Peroxidase	2.014579176	0.073909279	Up	1.290040951	2.09634E-06	Up
32	Solyc06g076570.2	A0A3Q7H3Z8	Uncharacterized protein	1.597268678	0.001456566	Up	1.666379568	1.54507E-08	Up

Table S14. List of integrated genes and proteins with unmatched dysregulation in tomato seedlings treated with salt in the presence of graphene compared with control.

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
1	Solyc06g036110.1	A0A3Q7HLU6	C2 domain-containing protein	-1.08300114	0.17055718	Down	1.085771719	1.52111E-07	Up

	Gene ID	Protein ID	Description	Gene logFC	Gene P.Val	Gene	Protein logFC	Protein P.Val	Protein
2	Solyc01g097240.3	P32045	Pathogenesis-related protein P2	2.917510736	0.00711256	Up	-1.169745039	1.95091E-06	Down
3	Solyc07g005100.3	A0A3Q7H377	GH18 domain-containing protein	2.232977755	0.05864795	Up	-1.488268186	3.18138E-08	Down
4	Solyc07g007750.3	B1N678	Defensin protein	1.347814497	0.13065836	Up	-1.008400181	1.08545E-06	Down
5	Solyc12g017460.1	A0A3Q7J566	Uncharacterized protein	1.366028494	0.07266629	Up	-1.117884332	2.37047E-06	Down
6	Solyc12g042500.2	A0A3Q7J9H2	Uncharacterized protein	1.355248986	0.05987485	Up	-1.644681477	1.0448E-06	Down
7	Solyc04g054740.3	A0A3Q7G4W7	Inositol-3-phosphate synthase	2.758827097	0.00016085	Up	-1.096232535	7.56506E-08	Down
8	Solyc10g079860.2	A0A3Q7IKF2	Uncharacterized protein	2.229894704	0.14137514	Up	-1.767781837	4.78557E-08	Down
9	Solyc11g069880.2	A0A3Q7J0J3	Uncharacterized protein	3.00362226	0.01430059	Up	-2.005054134	5.89069E-08	Down
10	Solyc02g065090.3	A0A3Q7F1E6	Patatin	1.71169431	0.185446	Up	-1.249285976	1.1689E-07	Down
11	Solyc02g082930.3	Q05540	Acidic 27 kDa endochitinase	3.226311894	0.06747398	Up	-1.53393791	1.09404E-07	Down