

Table S1. Gene candidates related to growth and stress

Systematic	Fold change*	TC / GB number**	Score	E-Value	Annotation	Source
TowgeN_i_17572	2.8	TC177381	629	e-178	9-cis-epoxycarotenoid dioxygenase	Solanum lycopersicum
TowgeN_i_45613	2.8	AW033181	107	1e-21	1-aminocyclopropane-1-carboxylate oxidase homolog	Betula pendula
TowgeN_i_10088	2.2	TC169897	3138	0.0	1-aminocyclopropane 1-carboxylate synthase 4 (ACS4)	Solanum lycopersicum
TowgeN_i_47700	5.8	AW616064	366	2e-99	DnaJ protein	Solanum tuberosum
TowgeN_i_20868	3.3	TC180677	541	e-152	T-complex protein 1 subunit beta	Zea mays
TowgeN_i_15060	2.5	TC174869	243	e-101	Putative DnaJ-like protein	Arabidopsis thaliana
TowgeN_i_10207	2.4	TC170016	1341	0.0	Heat shock protein cognate70	Solanum lycopersicum
TowgeN_i_23513	2.3	TC183322	1114	0.0	HSP68	Solanum tuberosum
TowgeN_i_21537	2.1	TC181346	138	5e-38	Similar to DnaJ-like protein	Phaseolus vulgaris
TowgeN_i_16918	2.0	TC176727	68	2e-24	Chaperone protein dnaJ	Zea mays
TowgeN_i_14962	5.3	TC174771	240	3e-61	Dr1	Arabidopsis thaliana
TowgeN_i_49253	5.2	AI488762	113	6e-61	TGA10 transcription factor	Nicotiana tabacum
TowgeN_i_15873	5.1	TC175682	158	9e-53	Putative bZIP DNA-binding protein	Capsicum chinense
TowgeN_i_14818	3.6	TC174627	96	1e-34	Putative bHLH transcription factor	Arabidopsis thaliana
TowgeN_i_29904	3.6	TC189713	390	e-126	AP2 transcription factor (AP2c)	Solanum lycopersicum
TowgeN_i_14007	3.6	TC173816	993	0.0	MADS-box protein 1	Solanum lycopersicum
TowgeN_i_34130	3.5	AI637280	76	1e-11	Ethylene-responsive element binding factor	Nicotiana tabacum
TowgeN_i_10815	3.0	TC170624	514	0.0	Similar to u1 small nuclear ribonucleoprotein C	Solanum lycopersicum
TowgeN_i_46254	2.9	AW944915	272	2e-88	PHAVOLUTA-like HD-ZIP3 protein	Nicotiana sylvestris
TowgeN_i_27910	2.9	TC187719	357	e-168	Putative HB15 HD-ZipIII	Malus x domestica
TowgeN_i_39962	2.4	AW222395	144	3e-82	MYC transcription factor (jamyc2)	Solanum tuberosum
TowgeN_i_20104	2.3	TC179913	215	6e-62	Putative eukaryotic translation initiation factor 3 subunit 8	Arabidopsis thaliana
TowgeN_i_31482	2.2	TC191291	202	3e-78	Putative MYB transcription factor	Rosa rugosa
TowgeN_i_17642	2.2	TC177451	288	8e-76	BTF3-like transcription factor	Solanum lycopersicum
TowgeN_i_16457	2.1	TC176266	50	5e-11	GARP-like putative transcription factor KANDI2	Arabidopsis thaliana
TowgeN_i_17345	2.0	TC177154	166	1e-62	MADS-box transcription factor FBP20	Petunia x hybrida
TowgeN_i_28546	2.9	TC188355	355	0.0	Cytochrome P450	Vitis vinifera
TowgeN_i_15932	2.5	TC175741	163	e-127	Cytochrome P450 monooxygenase CYP736B	Vitis arizonica x Vitis rupestris
TowgeN_i_23519	2.5	TC183328	1102	0.0	Cytochrome P450-monooxygenase 97C11	Solanum lycopersicum
TowgeN_i_22721	2.4	TC182530	410	e-112	CYP81B2v2	Nicotiana tabacum
TowgeN_i_14840	2.4	TC174649	151	7e-45	Cytochrome P450	Panax ginseng
TowgeN_i_49577	2.3	BI935377	275	3e-72	P450 hydroxylase	Solanum melongena
TowgeN_i_19993	2.1	TC179802	327	8e-99	CYP71AT2v2	Nicotiana tabacum
TowgeN_i_27547	2.4	TC187356	199	2e-89	CDK-activating kinase	Euphorbia esula
TowgeN_i_17272	2.0	TC177081	886	0.0	Petunia Shaggy kinase 4	Petunia x hybrida
TowgeN_i_44967	2.0	BG131683	313	1e-83	Tassel serine threonine kinase 1	Zea mays
TowgeN_i_12098	3.4	TC171907	208	3e-75	Leucine-rich repeat receptor-like protein kinase	Arabidopsis thaliana
TowgeN_i_28071	3.3	TC187880	659	0.0	Protein kinase-like protein	Arabidopsis thaliana
TowgeN_i_31063	3.3	TC190872	189	4e-57	Protein kinase	Arabidopsis thaliana
TowgeN_i_16480	3.0	TC176289	167	2e-53	Protein kinase 2	Nicotiana tabacum
TowgeN_i_38560	3.0	BF097228	253	1e-65	Leucine-rich repeat receptor-like protein kinase (LRR-RLK)	Arabidopsis thaliana
TowgeN_i_24711	2.9	TC184520	377	e-116	Protein kinase CK2 alpha chain	Nicotiana tabacum
TowgeN_i_12346	2.6	TC172155	309	e-116	Protein kinase-like protein	Arabidopsis thaliana
TowgeN_i_27530	2.5	TC187339	275	5e-83	Protein kinase SRK	Nicotiana tabacum
TowgeN_i_28361	2.5	TC188170	125	2e-74	Putative serine/threonine protein kinase	Populus tomentosa
TowgeN_i_46543	2.4	AW216537	138	5e-87	Calcium-dependent protein kinase	Solanum tuberosum
TowgeN_i_16006	2.3	TC175815	206	0.0	Leucine-rich repeat receptor-like protein kinase (LRR-RLK)	Arabidopsis thaliana
TowgeN_i_25197	2.2	TC185006	534	e-152	Tousled-protein kinase	Solanum lycopersicum
TowgeN_i_16167	2.2	TC175976	135	1e-29	Putative receptor-like protein kinase 4 (RLK4)	Ipomoea trifida
TowgeN_i_48019	2.2	BI204574	108	8e-22	Receptor protein kinase	Ipomoea trifida
TowgeN_i_48488	2.1	BG128161	226	5e-59	Putative tyrosine phosphatase	Arabidopsis thaliana
TowgeN_i_23037	2.6	TC182846	372	e-101	Protein phosphatase 2C, putative	Arabidopsis thaliana
TowgeN_i_46695	3.3	BI925852	63	3e-14	Glutathione S-transferase	Capsicum annuum

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TowgeN_I_14780	2.6	TC174589	277	3e-82	Glutathione S-transferase	Bruguiera gymnorhiza
TowgeN_I_14062	2.9	TC173871	292	6e-77	54CP protein	Arabidopsis thaliana
TowgeN_I_45250	2.8	BE435218	82	5e-15	GTP-binding protein LepA-like protein	Solanum nigrum
TowgeN_I_12194	17.3	TC172003	378	e-108	Nucleoside diphosphate kinase	Nicotiana tabacum
TowgeN_I_48445	4.8	BG128467	100	3e-33	Nucleoside diphosphate kinase	Solanum tuberosum
TowgeN_I_29030	3.2	TC188839	305	e-105	Nodulin-like protein	Arabidopsis thaliana
TowgeN_I_17553	2.1	TC177362	473	e-131	Nodulin / glutamate-ammonia ligase-like protein	Arabidopsis thaliana
TowgeN_I_10080	5.9	TC169889	3467	0.0	Fatty acid hydroperoxide lyase	Solanum lycopersicum
TowgeN_I_45494	3.5	BE461860	74	1e-12	Triosphosphate isomerase-like protein	Solanum lycopersicum
TowgeN_I_30345	3.4	TC190154	437	e-130	FAS protein	Arabidopsis thaliana
TowgeN_I_10816	3.1	TC170625	544	e-162	Nucleic acid-binding protein (nbp1)	Arabidopsis thaliana
TowgeN_I_13954	3.0	TC173763	119	1e-54	BURP domain protein (BNM2A)	Solanum lycopersicum
TowgeN_I_25039	3.0	TC184848	86	1e-22	Putative CENP-E-like kinetochore protein	Hordeum vulgare
TowgeN_I_10386	2.9	TC170195	1204	0.0	Lethal leaf spot 1-like protein, complete	Arabidopsis thaliana
TowgeN_I_11075	2.7	TC170884	694	0.0	Bax inhibitor	Arabidopsis thaliana
TowgeN_I_47859	2.6	AW650586	319	3e-85	Putative WD-repeat protein	Arabidopsis thaliana
TowgeN_I_46079	2.6	AW929555	98	7e-37	CER1-like	Solanum lycopersicum
TowgeN_I_21316	2.4	TC181125	531	0.0	S-adenosyl-methionine-sterol-C-methyltransferase	Solanum lycopersicum
TowgeN_I_11811	2.3	TC171420	297	1e-83	Heat-shock transcription factor-like protein	Solanum tuberosum
TowgeN_I_31143	2.2	TC190952	202	1e-55	PGPS/D7	Capsicum annuum
TowgeN_I_10337	2.2	TC170146	1060	0.0	Polyphenol oxidase precursor	Arabidopsis thaliana
TowgeN_I_23854	2.2	TC183663	108	9e-22	Seed maturation protein PM41	Petunia x hybrida
TowgeN_I_22391	2.2	TC182200	306	3e-81	26S proteasome AAA-ATPase subunit RPT2a	Solanum lycopersicum
TowgeN_I_19397	2.1	TC179206	194	7e-46	Homolog of human BTAF1	Gossypium hirsutum
TowgeN_I_12903	2.1	TC172712	295	0.0	Alcohol dehydrogenase	Nicotiana tabacum
TowgeN_I_17094	2.1	TC176903	146	6e-54	Receptor kinase Leckr	Arabidopsis thaliana
TowgeN_I_40324	2.1	BE450403	388	e-106	LeArcA2 protein	Glycine max
TowgeN_I_27870	2.1	TC187479	618	0.0	Inositol-1, 4, 5-triphosphate-5-phosphatase	Arabidopsis thaliana
TowgeN_I_30878	2.1	TC190667	587	0.0	Putative purple acid phosphatase	Nicotiana tabacum
TowgeN_I_20254	2.0	TC180063	900	0.0	Trehalose- 6-phosphate synthase-like (TPS7)	Zea mays
TowgeN_I_19537	2.0	TC179346	605	e-171	F-box protein family (FBL5)	Arabidopsis thaliana
TowgeN_I_48977	2.0	BE353821	408	e-112	Aspartate kinase	Solanum lycopersicum
TowgeN_I_18661	2.0	TC178870	126	2e-76	S-adenosyl-L-methionine:salicylic acid carboxyl methyltransferase-like protein	Brassica napas
TowgeN_I_13693	2.0	TC173502	275	4e-74	Putative ML domain protein	Solanum lycopersicum

* 'Fold change' indicates changes in the expression levels in NaCl-primed seedlings compared to the hydro-primed seedlings.

** 'TC' and 'GB' indicate the accession number on TIGR and GenBank, respectively.