Table S2. Differentially expressed genes in *rsa1-1* under control condition as determined by microarray analysis. Table S2A. Genes with increased expression in *rsa1-1* without stress as determined by microarray analysis.

AGI ID	Fold Change	P Value	Gene Description	Go Term (Biological Process)
AT1G64110	2.42	0.000017	P-loop containing nucleoside triphosphate hydrolases superfamily protein	developmental processes
AT2G03150	2.37	0.000024	ATP/GTP-binding protein family	developmental processes
AT3G15670	2.42	0.001547	Late embryogenesis abundant protein (LEA) family protein	developmental processes
AT1G08430	2.19	0.000142	aluminum-activated malate transporter 1	other biological processes
AT1G33790	3.06	0.000025	jacalin lectin family protein	other biological processes
AT1G73040	2.11	0.002153	Mannose-binding lectin superfamily protein	other biological processes
AT4G12340	3.36	0.000001	copper ion binding	other biological processes
AT2G47780	5.32	0.000002	Rubber elongation factor protein (REF)	other biological processes
AT3G08860	2.88	0.000005	PYRIMIDINE 4	other cellular processes
AT3G49580	2.51	0.004612	response to low sulfur 1	other cellular processes
AT4G25820	2.19	0.000805	xyloglucan endotransglucosylase/hydrolase 14	other cellular processes
AT5G22460	2.14	0.000098	alpha/beta-Hydrolases superfamily protein	other cellular processes
AT4G02270	2.18	0.000381	root hair specific 13	other enzyme activity
AT3G21720	3.16	0.000001	isocitrate lyase	other metabolic processes
AT4G14090	2.25	0.002155	UDP-Glycosyltransferase superfamily protein	other metabolic processes
AT4G15530	2.08	0.000085	pyruvate orthophosphate dikinase	other metabolic processes
AT4G22870	2.83	0.001225	2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein	other metabolic processes
AT5G03860	3.16	0.000011	malate synthase	other metabolic processes
AT5G17220	2.85	0.002604	glutathione S-transferase phi 12	other metabolic processes
AT5G56080	2.14	0.000825	nicotianamine synthase 2	other metabolic processes
AT4G17470	2.33	0.000098	alpha/beta-Hydrolases superfamily protein	protein metabolism
AT5G54060	2.28	0.001335	UDP-glucose:flavonoid 3-o-glucosyltransferase	protein metabolism
AT3G02480	2.47	0.000049	Late embryogenesis abundant protein (LEA) family protein	response to abiotic or biotic stimulus
AT4G36880	2.69	0.000532	cysteine proteinase1	response to abiotic or biotic stimulus
AT5G06760	2.01	0.002845	Late Embryogenesis Abundant 4-5	response to abiotic or biotic stimulus
AT5G10140	4.39	0.000000	K-box region and MADS-box transcription factor family protein	response to abiotic or biotic stimulus
AT5G59310	6.33	0.000001	lipid transfer protein 4	response to abiotic or biotic stimulus
AT5G59320	4.13	0.000001	lipid transfer protein 3	response to abiotic or biotic stimulus
AT1G52040	3.74	0.002647	myrosinase-binding protein 1	response to stress
AT1G73120	2.46	0.000078	unknown protein	response to stress

AT1G80130	2.05	0.000046	Tetratricopeptide repeat (TPR)-like superfamily protein	response to stress
AT2G15010	3.29	0.001390	Plant thionin	response to stress
AT3G49960	2.24	0.002709	Peroxidase superfamily protein	response to stress
AT5G67400	2.33	0.002752	root hair specific 19	response to stress
AT2G37870	3.24	0.000000	seed storage 2S albumin superfamily protein	transport
AT4G25010	2.15	0.000238	Nodulin MtN3 family protein	transport
AT4G25220	2.35	0.000135	root hair specific 15	transport
AT4G27140	3.69	0.000004	seed storage albumin 1	transport
AT5G01870	3.13	0.000004	seed storage 2S albumin superfamily protein	transport
AT2G18680	2.47	0.000173	unknown protein	unknown biological processes
AT5G20790	2.06	0.000056	unknown protein	unknown biological processes

Table S2B. Genes with reduced expression in *rsa1-1* without stress as determined by microarray analysis.

AGI ID	Fold Change	P Value	Gene Description	Go Term (Biological Process)
AT1G59840	4.77	0.000001	cofactor assembly of complex C	cell organization and biogenesis
AT4G12550	4.56	0.000016	Auxin-Induced in Root cultures 1	developmental processes
AT1G45474	2.16	0.000008	photosystem I light harvesting complex gene 5	electron transport or energy pathways
AT2G33790	4.33	0.000000	arabinogalactan protein 30	other biological processes
AT5G23830	2.00	0.000401	MD-2-related lipid recognition domain-containing protein	other cellular processes
AT5G23840	2.66	0.000349	MD-2-related lipid recognition domain-containing protein	other cellular processes
AT5G53110	2.03	0.000532	RING/U-box superfamily protein	other cellular processes
AT1G21100	5.28	0.000004	O-methyltransferase family protein	other metabolic processes
AT1G50560	2.06	0.000263	cytochrome P450 family protein (CYP705A25)	other metabolic processes
AT1G64590	2.32	0.000976	NAD(P)-binding Rossmann-fold superfamily protein	other metabolic processes
AT2G44380	3.14	0.000001	Cysteine/Histidine-rich C1 domain family protein	other metabolic processes
AT2G46750	2.88	0.000068	D-arabinono-1,4-lactone oxidase family protein	other metabolic processes
AT3G13760	2.30	0.002161	Cysteine/Histidine-rich C1 domain family protein	other metabolic processes
AT3G26210	2.46	0.000187	cytochrome P450, family 71, subfamily B, polypeptide 23	other metabolic processes
AT4G39120	3.61	0.000008	myo-inositol monophosphatase like 2	other metabolic processes
AT5G17530	2.73	0.000001	phosphoglucosamine mutase family protein	other metabolic processes
AT5G36140	2.39	0.000381	cytochrome P450, family 716, subfamily A, polypeptide 2	other metabolic processes
AT5G42600	3.44	0.000177	marneral synthase	other metabolic processes

ATIG19900 2.88 0.000010 glyoxal oxidass-related protein other metabolic processes ATIG2401 2.27 0.00000 Robisco methyltransferase family protein other metabolic processes ATIG5000 2.08 0.0001393 2-cooplurate (2OG) and Fc(II)-dependent oxygenas superfamily protein other metabolic processes ATIG51800 2.03 0.000390 Leucine-rich repeat protein methylestranse inhibitor superfamily protein other metabolism ATIG51800 2.03 0.00090 Leucine-rich repeat protein methylestranse inhibitor superfamily protein protein metabolism ATIG51800 2.03 0.000395 Eukayotic and family protein protein metabolism ATIG63803 2.15 0.000402 cyperzine supervisid dismutase I response to abiotic or biotic stimulus ATIG70880 2.03 0.00052 cyperzine supervisid dismutase I response to abiotic or biotic stimulus ATIG70880 2.31 0.00042 cyperzine supervisid dismutase I response to abiotic or biotic stimulus ATIG20810 2.51 0.00042 cyperzine supervisid dismutase I response to abiotic or biotic stimulus ATIG20810 2.51 0.000042 cyperzine superoxid dismutase I <th>AT5G43520</th> <th>2.22</th> <th>0.000143</th> <th>Cysteine/Histidine-rich C1 domain family protein</th> <th>other metabolic processes</th>	AT5G43520	2.22	0.000143	Cysteine/Histidine-rich C1 domain family protein	other metabolic processes
ATIGS20602.080.000143Mannose-binding lextin superfamily proteinother metabolic processesATIG366002.03150.00130352-xosglutarate (2OG) and Fe(II)-dependent oxygenase superfamily proteinother metabolic processesATIG51652102.480.000970Plant invertase/pectin methylesterase inhibitor superfamily proteinother metabolic processesATIG5165302.220.000004Metallopeptidase M24 family proteinprotein metabolismATIG5163102.030.00138Enkaryotic saparty protesses family proteinprotein metabolismATIG088002.150.000407cysteine-rick RLK (RECEPTOR-like protein kinase) 25protein metabolismATIG088002.150.000402copper/zinc superoxide dismutase 1response to abiotic or biotic stimulusATIG088002.960.001602MLP-like protein 329response to abiotic or biotic stimulusAT2G2615002.570.000037copper/zinc superoxide dismutase 2response to abiotic or biotic stimulusAT2G281402.510.00037concanavalin A-like lextin proteinresponse to abiotic or biotic stimulusAT3G454102.160.00037concanavalin A-like lextin proteinresponse to abiotic or biotic stimulusAT3G454102.590.00011Polykeide cyclass/delydrase and lipid transport superfamily proteinresponse to abiotic or biotic stimulusAT3G454102.780.00011Polykeide cyclass/delydrase and lipid transport superfamily proteinresponse to abiotic or biotic stimulusAT3G454102.160.00037Concanavali	AT1G19900	2.68	0.000010	glyoxal oxidase-related protein	other metabolic processes
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AT3G454102.160.000537Concanavalin A-like lectin protein kinase family proteinresponse to abiotic or biotic stimulusAT4G124802.060.000433seed storage 2S albumin superfamily proteinresponse to abiotic or biotic stimulusAT4G140602.750.000171Polyketide cyclase/dehydrase and lipid transport superfamily proteinresponse to abiotic or biotic stimulusAT5G474502.590.000041tonoplast intrinsic protein 2;3response to abiotic or biotic stimulusAT5G641202.890.000011Peroxidase superfamily proteinresponse to abiotic or biotic stimulusAT1G522002.810.000020Peroxidase superfamily proteinresponse to stressAT1G661003.660.000020Peroxidase superfamily proteinresponse to stressAT4G370102.060.003164centrin 2response to stressAT1G61003.10centrin 2response to stressAT1G61002.120.000020Peroxidase superfamily proteinresponse to stressAT1G512002.110.000430Peroxidase superfamily proteinresponse to stressAT1G512002.120.000130RAD3-like DNA-binding helicase proteinsignal transductionAT1G528002.170.000210Leucine-rich repeat protein kinase family proteintranscription,DNA-dependentAT1G528002.170.00024RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT1G524502.470.00004nitrate transporter 1.5transportAT1G324502.470	AT2G01530	2.57	0.000010	MLP-like protein 329	response to abiotic or biotic stimulus
AT4G124802.060.000433seed storage 2S albumin superfamily proteinresponse to abiotic or biotic stimulusAT4G140602.750.000171Polyketide cyclase/dehydrase and lipid transport superfamily proteinresponse to abiotic or biotic stimulusAT5G474502.590.000041tonoplast intrinsic protein 2;3response to abiotic or biotic stimulusAT5G641202.890.000011Peroxidase superfamily proteinresponse to abiotic or biotic stimulusAT1G52002.810.000005PLAC8 family proteinresponse to stressAT1G661003.660.000020Peroxidase superfamily proteinresponse to stressAT2G390402.030.0001364centrin 2response to stressAT3G641002.120.000430Peroxidase superfamily proteinresponse to stressAT3G641002.120.000130RAD3-like DNA-binding helicase proteinsignal transductionAT1G79502.730.000245C2H2 and C2HC zinc fingers s	AT2G28190	2.51	0.000397	copper/zinc superoxide dismutase 2	response to abiotic or biotic stimulus
AT4G140602.750.000171Polyketide cyclase/dehydrase and lipid transport superfamily proteinresponse to abiotic or biotic stimulusAT5G474502.590.000041tonoplast intrinsic protein 2;3response to abiotic or biotic stimulusAT5G641202.890.000011Peroxidase superfamily proteinresponse to abiotic or biotic stimulusAT1G522002.810.000005PLAC8 family proteinresponse to stressAT1G661003.660.000002Plant thioninresponse to stressAT2G390402.030.000020Peroxidase superfamily proteinresponse to stressAT4G370102.060.003164centrin 2response to stressAT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G324502.470.00004nitrate transporte 1.5transportAT3G457102.350.00008Major facilitator superfamily proteintransportAT3G457102.350.000030RAD3-like DNA-binding helicase proteintransportAT3G457102.350.000030Najor facilitator superfamily proteintransportAT3G457102.350.000030Major facilitator superfamily proteintransportAT3G457102.350.000030Major facilitator superfamily proteintransportAT3G457102.35 <td>AT3G45410</td> <td>2.16</td> <td>0.000537</td> <td>Concanavalin A-like lectin protein kinase family protein</td> <td>response to abiotic or biotic stimulus</td>	AT3G45410	2.16	0.000537	Concanavalin A-like lectin protein kinase family protein	response to abiotic or biotic stimulus
AT5G474502.590.000041tonoplast intrinsic protein 2;3response to abiotic or biotic stimulusAT5G641202.890.000011Peroxidase superfamily proteinresponse to abiotic or biotic stimulusAT1G522002.810.000005PLAC8 family proteinresponse to stressAT1G661003.660.000062Plant thioninresponse to stressAT2G390402.030.000020Peroxidase superfamily proteinresponse to stressAT4G370102.060.003164centrin 2response to stressAT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G5228002.170.000041RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G245012.350.000040nitrate transporter 1.5transportAT1G324502.470.000040mitter transporter 1.5transportAT2G377502.210.00025unknown proteinunknown biological processesAT2G370502.790.00011unknown proteinunknown biological processes	AT4G12480	2.06	0.000433	seed storage 2S albumin superfamily protein	response to abiotic or biotic stimulus
AT5G641202.890.000011Perxidase superfamily proteinresponse to abiotic or biotic stimulusAT1G522002.810.000005PLAC8 family proteinresponse to stressAT1G661003.660.000062Plant thioninresponse to stressAT2G390402.030.000020Peroxidase superfamily proteinresponse to stressAT4G370102.060.003164centrin 2response to stressAT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G528002.170.00021Leucine-rich repeat protein kinase family proteintranscription,DNA-dependentAT5G28902.170.000245C2H2 and C2HC zinc fingers superfamily proteintransportAT1G324502.470.00004nitrate transport 1.5transportAT1G324502.210.000098Major facilitator superfamily proteintransportAT2G377502.210.000031unknown proteinunknown biological processesAT2G370502.790.000170unknown proteinunknown biological processes	AT4G14060	2.75	0.000171	Polyketide cyclase/dehydrase and lipid transport superfamily protein	response to abiotic or biotic stimulus
AT1G522002.810.00005PLAC8 family proteinresponse to stressAT1G661003.660.00062Plant thioninresponse to stressAT2G390402.030.00020Peroxidase superfamily proteinresponse to stressAT4G370102.060.003164centrin 2response to stressAT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.00004nitrate transporter 1.5transportAT3G457102.350.000031unknown proteinunknown biological processesAT2G377502.210.00031unknown proteinunknown biological processesAT4G31502.790.000170unknown proteinunknown biological processes	AT5G47450	2.59	0.000041	tonoplast intrinsic protein 2;3	response to abiotic or biotic stimulus
AT1G661003.660.000062Plant thioninresponse to stressAT2G390402.030.000020Peroxidase superfamily proteinresponse to stressAT4G370102.060.003164centrin 2response to stressAT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.000004nitrate transporter 1.5transportAT3G457102.350.000025unknown proteinunknown biological processesAT2G377502.210.000031unknown proteinunknown biological processesAT4G370902.040.00150unknown proteinunknown biological processes	AT5G64120	2.89	0.000011	Peroxidase superfamily protein	response to abiotic or biotic stimulus
AT2G390402.030.000020Peroxidase superfamily proteinresponse to stressAT4G370102.060.003164centrin 2response to stressAT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.000098Major facilitator superfamily proteintransportAT2G377502.210.000025unknown proteinunknown biological processesAT4G31502.790.000170unknown proteinunknown biological processesAT4G370902.040.00150unknown proteinunknown biological processes	AT1G52200	2.81	0.000005	PLAC8 family protein	response to stress
AT4G370102.060.003164centrin 2response to stressAT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.00004nitrate transporter 1.5transportAT3G457102.350.000025unknown proteintransportAT2G377502.210.000025unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT1G66100	3.66	0.000062	Plant thionin	response to stress
AT5G641002.120.000430Peroxidase superfamily proteinresponse to stressAT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.000004nitrate transporter 1.5transportAT3G457102.350.000025unknown proteinunknown biological processesAT2G377502.210.000031unknown proteinunknown biological processesAT4G031502.790.00170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT2G39040	2.03	0.000020	Peroxidase superfamily protein	response to stress
AT1G104801.59360.001672zinc finger protein 5signal transductionAT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.000044nitrate transporter 1.5transportAT3G457102.350.000098Major facilitator superfamily proteintransportAT2G377502.210.00025unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT4G37010	2.06	0.003164	centrin 2	response to stress
AT1G518302.070.000201Leucine-rich repeat protein kinase family proteinsignal transductionAT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.000004nitrate transporter 1.5transportAT3G457102.350.000098Major facilitator superfamily proteintransportAT2G377502.210.000025unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT5G64100	2.12	0.000430	Peroxidase superfamily protein	response to stress
AT1G799502.730.000130RAD3-like DNA-binding helicase proteintranscription,DNA-dependentAT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.000004nitrate transporter 1.5transportAT3G457102.350.000098Major facilitator superfamily proteintransportAT2G377502.210.00025unknown proteinunknown biological processesAT2G440102.340.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT1G10480	1.5936	0.001672	zinc finger protein 5	signal transduction
AT5G228902.170.000245C2H2 and C2HC zinc fingers superfamily proteintranscription,DNA-dependentAT1G324502.470.000004nitrate transporter 1.5transportAT3G457102.350.000098Major facilitator superfamily proteintransportAT2G377502.210.000025unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT1G51830	2.07	0.000201	Leucine-rich repeat protein kinase family protein	signal transduction
AT1G324502.470.00004nitrate transporter 1.5transportAT3G457102.350.00098Major facilitator superfamily proteintransportAT2G377502.210.000025unknown proteinunknown biological processesAT2G440102.340.00031unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT1G79950	2.73	0.000130	RAD3-like DNA-binding helicase protein	transcription, DNA-dependent
AT3G457102.350.000098Major facilitator superfamily proteintransportAT2G377502.210.000025unknown proteinunknown biological processesAT2G440102.340.000031unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT5G22890	2.17	0.000245	C2H2 and C2HC zinc fingers superfamily protein	transcription, DNA-dependent
AT2G377502.210.000025unknown proteinunknown biological processesAT2G440102.340.000031unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT1G32450	2.47	0.000004	nitrate transporter 1.5	transport
AT2G440102.340.000031unknown proteinunknown biological processesAT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT3G45710	2.35	0.000098	Major facilitator superfamily protein	transport
AT4G031502.790.000170unknown proteinunknown biological processesAT4G370902.040.001050unknown proteinunknown biological processes	AT2G37750	2.21	0.000025	unknown protein	unknown biological processes
AT4G37090 2.04 0.001050 unknown protein unknown biological processes	AT2G44010	2.34	0.000031	unknown protein	unknown biological processes
	AT4G03150	2.79	0.000170	unknown protein	unknown biological processes
AT5G26270 2.87 0.000020 unknown protein unknown biological processes	AT4G37090	2.04	0.001050	unknown protein	unknown biological processes
	AT5G26270	2.87	0.000020	unknown protein	unknown biological processes