

Supplemental Table 4 Mean gene down regulation (fold change) in leaves of Russian wheat aphid (RWA)-susceptible (*Dn0*) wheat plants at 24 h after phloem feeding by RWA biotype 1

Gene ID	Species	Putative ID	Mean Fold Change (–) ^a	<i>P</i> (<i>t</i> -test)	E-value
Hydrolases^b					
BQ172090	rice	Phospholipase-like	-3.86	0.0898	3.0E-48
CD921471	barley	β-glucosidase	-2.57	0.4863	4.0E-80
CA625310	rice	MufT/nudix protein-like	-2.02	0.2696	4.0E-37
Stress Response					
BJ254972	wheat	Putative major allergen Phl p 5	-2.83	0.4422	4.0E-16
CA635043	rice	Putative Pollen specific protein C13	-2.58	0.3604	8.0E-06
BJ310786	rice	Von Willebrand factor type A domain containing protein	-2.60	0.2080	7.0E-07
Signal Transduction					
CA683463	Neurospora	Predicted protein	-2.44	0.2453	3.0E-13
CA693401	rice	Putative response regulator 9	-2.38	0.3819	2.0E-28
CA659851	rice	Putative ADP-ribosylation factor	-2.14	0.0257	9.0E-15
CA715067	maize	Ras-related protein Rab-2-B	-2.57	0.3338	2.0E-30
CA624824	barley	Bet3-like protein component	-2.02	0.2841	9.0E-23
CD890594	rice	Putative phytochelatinsynthetase	-2.61	0.1035	2.0E-47
CA601620	rice	Putative WD repeat domain 45	-2.26	0.2451	1.0E-29
Protein Kinases					
CA735686	rice	Mitogen-activated protein kinase	-2.45	0.1810	3.0E-28
CA598474	rice	OSJNBa0016N04.15 protein	-2.03	0.5042	5.0E-17
CA686860	wheat	TAK33	-4.19	0.0390	2.0E-47
CA682481	rice	Putative serine/threonine kinase protein	-2.42	0.3921	3.0E-29
BJ315672	rice	Putative kinase-binding protein 1	-2.18	0.4673	1.0E-09
BJ318774	rice	Putative FHA domain	-2.03	0.4031	4.0E-33
Monoxygenases/Oxidoreductases					
CA638864	rice	OSJNBa0027H09.6 protein	-3.12	0.2744	9.0E-24
BT009179	rice	OSJNBb0089B03.6 protein	-2.94	0.0249	3.0E-80
Calcium & Iron Ion Binding					

CA690860	ryegrass	4-coumarate--CoA ligase 4CL2		0.0198	1.0E-12
BJ280134	rice	Putative class III peroxidase 106 precursor	-2.29	0.4128	3.0E-30
CA733642	rice	Putative peroxidase	-2.21	0.0627	5.0E-42
BJ231486	rice	Putative pectinacetyltransferase	-2.18	0.3414	4.0E-31
CA683063	bluegrass	Superoxide dismutase	-2.54	0.3253	5.0E-37
CA623910	rice	Putative mitochondrial receptor subunit	-2.29	0.4262	4.0E-11
CK165182	rice	Putative carboxylate oxidase	-2.13	0.1051	5.0E-18
CA621406	rice	Putative urease accessory protein G	-2.90	0.2919	5.0E-20
CA742615	rice	Putative makorin RING finger protein	-2.56	0.4335	3.0E-24
CD867734	barley	Metallothionein-like protein (fragment)	-2.05	0.3280	6.0E-18
CK154453	rice	O-methyltransferase	-2.32	0.0095	9.0E-17

Salicylate Signaling

CA722042	rice	Disease resistance response protein	-3.14	0.0082	2.0E-09
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Detoxification

CD873926	rice	Rhodanese-like domain-containing protein	-2.37	0.3553	1.0E-16
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DNA/Nucleic Acid Binding

BJ234710	rice	OSJNBb0052B05.12 protein	-3.34	0.0341	2.0E-19
BJ252983	frog	EPAB protein	-3.18	0.2799	2.0E-11
BQ607159	rice	Putative tuber-specific & sucrose-responsive binding factor	-2.94	0.0436	1.0E-19
CA617565	rice	Auxin response factor 2 (fragment)	-2.64	0.2160	2.0E-30
CA681076	maize	Polyprotein	-2.49	0.4450	9.0E-15
CA618012	maize	60S ribosomal protein L17	-2.46	0.2401	1.0E-22
CA687700	Aspergillus	40S ribosomal protein S5	-2.19	0.3282	3.0E-21
CA604568	beet	Eukaryotic translation initiation factor	-2.78	0.0568	1.0E-21
CD490719	rice	Putative cyclophilin	-2.23	0.4016	1.0E-45
CA624167	rice	BHLH protein family-like	-2.86	0.3644	6.0E-26
CA683257	rice	Putative AGO1 homologous protein	-2.47	0.1106	3.0E-37
CD490412	rice	OSJNBa0084A10.13 protein	-2.03	0.1164	6.0E-21
CA614208	maize	retrotransposon Cinfu-1	-2.02	0.3778	2.0E-09

Actin Cytoskeleton Biogenesis

CA619934	rice	Profilin A	-3.23	0.0345	3.0E-36
BJ213208	rice	OSJNBb0079B02.14 protein	-2.34	0.0401	1.0E-21
CA595213	rice	Putative SKP1 interacting partner	-2.59	0.2553	8.0E-21

Intracellular Transport

BG907833*	rice	OSJNBa0043L24.9 protein	-2.48	0.1145	3.0E-37
CA616728	rice	PPR protein-like protein	-2.33	0.2413	2.0E-33
CA619966	Arabidopsis	Guanine nucleotide-exchange-like protein	-2.28	0.2123	5.0E-30
BJ316737	rice	Putative spop	-2.50	0.0419	8.0E-24

Electron Transport

CA642777	rice	Putative ATP cell differentiation binding protein	-2.36	0.2829	2.0E-32
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Metabolism

BJ260653	rice	Glycerophosphoryl diester phosphodiesterase 2-like protein	-2.63	0.0165	3.0E-39
AF292559	Azotobacter	Green fluorescence protein	-2.32	0.5154	3.0E-86
CA729941	rice	Putative linalool synthase	-3.05	0.1303	2.0E-17
BE398377	wheat	α -gliadin	-3.23	0.0535	3.0E-22

^a Mean log₂ transcript values present or marginal in 3 of 4 arrays hybridized with *Dn0* probes.

^bFunctional classification determined by GO Annotation Pub Med .