

**Supplemental Table 3.** Mean gene down regulation (fold change) in wheat plant leaves containing the *Dnx* gene for resistance at 24 h after phloem feeding by Russian wheat aphid biotype 1

Gene ID	Species	Putative ID	Mean Fold		
			Change (-) <sup>a</sup>	P (t-test)	E-value
<b>Stress Response<sup>b</sup></b>					
CD928919	wheat	Putative $\beta$ -xylosidase (Fragment)	-3.03	0.0018	5.0E-59
AY280870	wheat	MADS-box protein TaVRT-1 (VRN-B1)	-2.97	0.0128	9.0E-09
CA692950	Neurospora	Hypothetical stress response protein	-2.20	0.0390	3.0E-18
CA741617	rice	Hypothetical secretory protein	-2.01	0.0142	2.0E-09
<b>Protein Kinases</b>					
BJ319268	rice	Receptor-like protein kinase-like protein	-3.17	0.0102	1.0E-31
<b>Calcium &amp; Iron Ion Binding</b>					
BQ806534	wheat	5a2 protein (Fragment)	-3.17	0.0487	5.0E-45
BJ266156	rice	Calmodulin-like	-2.29	0.0441	1.0E-05
CK208366	rice	Putative NAC domain protein NAC1	-2.16	0.0447	1.0E-07
CD453571	rice	Putative glutathione S-transferase	-2.12	0.0436	5.0E-25
<b>Monoxygenases/Oxidoreductases</b>					
BJ290995	rice	Putative cytochrome P450	-2.71	0.0163	3.0E-51
CA619079	rice	Putative cytochrome P450	-2.21	0.0178	1.0E-58
CA641356	rice	Putative cell division control protein 6	-2.17	0.0021	4.0E-42
<b>Metabolism</b>					
CD490640	rice	Putative LRR protein (ER - Golgi transport)	-4.43	0.0120	1.0E-41
BJ259919	rice	OSJNBb0038F03.10 protein (transcription)	-2.84	0.0000	4.0E-25
CA742602	rice	OSJNBa0084A10.7 protein	-2.76	0.0076	1.0E-39
CA743352	rice	OSJNBa0071I13.9 protein	-2.46	0.0404	2.0E-33
CA620519	rice	Hypothetical mitochondrial ATP synthase	-2.16	0.0014	5.0E-08

<sup>a</sup> Mean log<sub>2</sub> transcript values present or marginal in 4 of 6 arrays hybridized with *Dnx* probes.

<sup>b</sup> Functional classification determined by GO Annotation Pub Med.