

Additional File 8: Table S7 List of genes down-regulated in Weisuobuzhi and up-regulated in Dong17 after exposing the plants to 5 μ M Cd for 15 d.

Annotation	Probe Set ID	Fold change*		Accession No	E-value
		(Cd vs control)			
		W	D		
Stress and defense response					
Peroxidase [<i>T. aestivum</i>]	HVSMEm0005P05r2_at	-3.51	7.02	S14611	2e-23
Pathogenesis related protein-1 [<i>Z. mays</i>]	Contig12046_at	-3.87	6.9	T02054	5e-57
Pathogenesis-related protein 4 [<i>H. vulgare</i>]	Contig2550_x_at	-3.11	4.95	T06169	8e-77
Putative calreticulin [<i>O. sativa</i> (japonica)]	rbags16i08_x_at	-2.06	4.26	AC06263.1	7e-11
Pathogenesis-related protein 1a [<i>H. vulgare</i> subsp.]	Contig2214_s_at	-5.47	4.09	S37166	5e-81
Permatin homolog PR5 [<i>H. vulgare</i> subsp.]	Contig2787_s_at	-4.62	3.76	T05973	e-133
Pathogenesis-related protein PRB1-3 precursor[<i>H. vulgare</i>]	Contig2212_s_at	-6.6	3.75	P35793	8e-88
Pathogenesis-related protein 1 precursor [<i>H. vulgare</i>]	Contig2210_at	-5.42	3.65	Q05968	2e-80
Pathogenesis-related protein 1a precursor [<i>H. vulgare</i>]	Contig4056_s_at	-5.08	3.47	P32937	7e-46
Thaumatococin-like protein TLP7 [<i>H. vulgare</i>]	Contig2789_at	-6.27	3.44	AAK55325.1	e-117
Pathogenesis-related protein 1a [<i>H. vulgare</i>]	Contig2209_at	-4.24	3.26	S37166	5e-81
Pathogenesis-related protein 4 [<i>H. vulgare</i>]	Contig639_at	-8.85	2.87	T06171	4e-12
Thaumatococin-like protein TLP8 [<i>H. vulgare</i>]	EBem10_SQ002_I10_s_at	-3.14	2.68	AAK55326.1	8e-04
Pathogen-induced protein WIR1A [<i>T. aestivum</i>]	Contig5974_s_at	-3.19	2.51	Q01482	1e-24
Pathogenesis-related protein PRB1-2 precursor [<i>H. vulgare</i>]	Contig2211_at	-3.89	2.35	P35792	1e-80
WIR1 protein [<i>T. aestivum</i>]	Contig9917_at	-2.01	2.19	S55368	1e-04
Transcription					
Myb-related protein [<i>H. vulgare</i>]	Contig3667_s_at	-3.57	3.77	T06179	e-164
Carbohydrate metabolism					
Glucan endo-1,3-beta-D-glucosidase [<i>H. vulgare</i>]	Contig1637_s_at	-7.24	8.54	D38664	e-162
Glucan endo-1,3-beta-D-glucosidase [<i>H. vulgare</i>]	Contig1637_at	-7.83	7.94	D38664	e-162
Glucan endo-1,3-beta-D-glucosidase [<i>H. vulgare</i>]	HVSMEm000BC152_s_at	-6.67	7.65	A31800	2e-48
Beta-1,3-glucanase precursor [<i>T. aestivum</i>]	Contig13350_at	-4.85	6.69	AAD28734.1	7e-65
Signal transduction					
SERK2 protein [<i>Z. mays</i>]	Contig3635_s_at	-5.54	2.2	CAC37639.1	3e-59
SERK2 protein [<i>Z. mays</i>]	Contig3636_at	-5.73	2.06	CAC37639.1	8e-60
secretory protein [<i>T. aestivum</i>]	Contig358_at	-3.62	2.04	AAD46133.1	e-100
Unknown classified					
Hypothetical protein pBH6-17 [<i>H. vulgare</i>]	Contig590_s_at	-3.64	3	T06205	4e-80
Hypothetical protein pBH6-12 [<i>H. vulgare</i>]	Contig634_at	-3.07	2.33	T06204	e-120
Putative protein [<i>A. thaliana</i>]	Contig10152_at	-2.1	2.29	NP_193034.1	3e-59
Hypothetical protein [<i>O. sativa</i>]	Contig4815_at	-2.64	2.02	AAK98749.1	3e-20
OSJNBa0052O21.28 [<i>O. sativa</i> (japonica)]	Contig13248_at	-2.25	2.01	CAD40043.1	1e-82
Hypothetical protein pBH6-17 [<i>H. vulgare</i>]	Contig590_at	-2.78	2	T06205	4e-80
None					
none	HW06E20u_x_at	-7.38	5.31	none	none
none	Contig11773_at	-3.28	4.43	none	none
none	HP01B09w_at	-2.9	2.42	none	none
none	Contig16886_at	-6.62	2.24	none	none

* The fold change represents the mean ratio of gene expression in leaves of the two genotypes exposed to 5 μ M Cd for 15 d over those in the control. Genes were considered up-regulated and down-regulated if the induction ratio was >2.0 and <-2.0 , respectively.