

Table 1 Suppl. Differentially expressed genes associated with glutathione metabolism in the transcript profiling analysis of OTA-induced cell death in *A. thaliana* (Wang *et al.* 2012).

Gene	Gene description	Fold change (log ₂)	ID
<i>GPX6</i>	glutathione peroxidase 6	4.21 (2.08)	AT4G11600
<i>GPX2</i>	glutathione peroxidase 2	3.17 (1.67)	AT2G31570
<i>GPX3</i>	glutathione peroxidase 3	2.32 (1.21)	AT2G43350
<i>GPX8</i>	glutathione peroxidase 8	3.39 (1.76)	AT1G63460
<i>APX3</i>	ascorbate peroxidase 3	4.49 (2.17)	AT4G35000
<i>SAPX</i>	stromal ascorbate peroxidase	2.16 (1.12)	AT4G08390
<i>DHAR</i>	dehydroascorbate reductase 1	0.74 (-0.44)	AT5G16710
<i>DHAR2</i>	dehydroascorbate reductase 2	3.44 (1.78)	AT1G75270
<i>MDHAR1</i>	monodehydroascorbate reductase	2.54 (1.35)	AT3G52880
<i>MDHAR2</i>	monodehydroascorbate reductase	2.79 (1.48)	AT5G03630
<i>GSH1</i>	glutamate-cysteine ligase	3.66 (1.87)	AT4G23100
<i>GR1</i>	glutathione-disulfide reductase	2.36 (1.24)	AT3G24170
<i>GSTU2</i>	glutathione S-transferase	1632 (10.67)	AT2G29480
<i>GSTU9</i>	glutathione S-transferase	1573 (10.62)	AT5G62480
<i>GSTU10</i>	glutathione S-transferase	594 (9.21)	AT1G74590
<i>GSTU8</i>	glutathione S-transferase	564 (9.14)	AT3G09270
<i>GSTU12</i>	glutathione S-transferase	415 (8.69)	AT1G69920
<i>GSTU11</i>	glutathione S-transferase	226.29 (7.82)	AT1G69930
<i>GSTU24</i>	glutathione S-transferase	181.13 (7.50)	AT1G17170
<i>GSTU1</i>	glutathione S-transferase	152.09 (7.24)	AT2G29490
<i>GSTU3</i>	glutathione S-transferase	34.98 (5.12)	AT2G29470
<i>GSTU19</i>	glutathione S-transferase	34.13 (5.09)	AT1G78380
<i>GSTF7</i>	glutathione S-transferase	21.41 (4.42)	AT1G02920
<i>GSTF2</i>	glutathione S-transferase	17.86 (4.16)	AT4G02520
<i>GSTF6</i>	glutathione S-transferase	13.44 (3.75)	AT1G02930
<i>GSTF8</i>	glutathione S-transferase	8.40 (3.07)	AT2G47730
<i>GSTU4</i>	glutathione S-transferase	7.53 (2.92)	AT2G29460
<i>GSTU20</i>	glutathione S-transferase	2.36 (1.24)	AT1G78370
<i>GSTU27</i>	glutathione S-transferase	-2.99 (-1.58)	AT3G43800

Table 2 Suppl. Gene-specific primers used in quantitative real-time PCR.

Enzyme	Locus Name	Primers (5'-3')	Reference
Glutathione peroxidase 6 (<i>GPX6</i>)	At4g11600	F-GGGAAACGATGTTGATCTAAGCA; R-ACAGCTGCGCAAGCTCAGTA	designed
Glutathione S-transferase (<i>GSTF7</i>)	11At1g02920	F-TTGTTTGGGAGC-AAGTCTTAAAGC; R-TTAAAGAACCCTTCTTAGCAGAAGGCC	Chivasa <i>et al.</i> 2006
Glutathione reductase 1 (<i>GRI</i>)	At3g24170	F-GCAATGTCGCCGTGTGCTGTA; R-TTGGATTAAGCCTGAGGTGAAG	Wang <i>et al.</i> 2014
Stromal ascorbate peroxidase (<i>SAPX</i>)	At4g08390	F-GCACCAGGAGGACAGTCATG; R-GGGCTACAGCGTAATCCTTG	Chew <i>et al.</i> 2003
Dehydroascorbate reductase (<i>DHAR1</i>)	1At1g19570	F-ACAAACCCAGTGGTTCTTGGAC; R-TCAGCAGGAGTCTTGAGTGGTGG	Wang <i>et al.</i> 2014
Monodehydroascorbate reductase (<i>MDHAR1</i>)	1At3g52880	F-CGCCGATATTGCTGCTTTCT; R-TCCATTTGGCTGAGCTGTGA	Wang <i>et al.</i> 2014
Actin 2 (<i>ACT2</i>)	At2g37620	F-GAATCGCCGACAGAATGA; R-TACTGAGGGAGGCCAAGA	Wang <i>et al.</i> 2012

Chew, O., Whelan, J., Millar, A.H.: Molecular definition of the ascorbate-glutathione cycle in *Arabidopsis* mitochondria reveals dual targeting of antioxidant defenses in plants. - J. Biol. Chem. **278**: 46869-46877, 2003.

Chivasa, S., Hamilton, J.M., Pringle, R.S., Ndimba, B.K., Simon, W.J., Lindsey, K., Slabas, A.R.: Proteomic analysis of differentially expressed proteins in fungal elicitor-treated *Arabidopsis* cell cultures- J. exp. Bot. **57**: 1553-1562, 2006.

Wang, Y., Peng, X.L., Xu, W.T., Luo, Y.B., Zhao, W.W., Hao, J.R., Liang, Z.H., Zhang, Y., Huang, K.L.: Transcript and protein profiling analysis of OTA-induced cell death reveals the regulation of the toxicity response process in *Arabidopsis thaliana*. - J. exp. Bot. **63**: 2171-2187, 2012.

Wang, Y., Zhao, W., Hao, J., Xu, W., Luo, Y., Wu, W., Yang, Z., Liang, Z., Huang, K.: Changes in biosynthesis and metabolism of glutathione upon ochratoxin A stress in *Arabidopsis thaliana*. - Plant Physiol. Biochem. **79**: 10-18, 2014.

Fig. 1 Suppl. The influence of BSO to OTA induced leaf injury in four-week-old *A. thaliana* detached leaves. *A* - control, *B* - BSO, *C* - OTA, *D* - BSO+OTA. The photographs were taken after a 24 h treatment.

