

Table 9: Gene expression changes in WIN overexpressors: most significantly upregulated or downregulated genes in two overexpressing lines

Affymetrix Sequence Code	Chromosome Locus	Annotation	Fold change vs control line 13	Fold change vs control line 22	Probable functional association
Up-regulated genes					
12513_at	AT1G15360	ethylene responsive element binding factor 2 (ERF2) - WIN1	100	100	
18809_at	AT1G05310	pectinesterase family	5.29	11.65	cell wall metabolism
15145_s_at	AT1G02205	CER1protein	3.63	10	wax biosynthesis
13977_at	AT2G41540	glycerol-3-phosphate dehydrogenase	7.33	8.22	lipid metabolism
16279_at	AT2G04570	GDSL-motif lipase/hydrolase protein	13.67	7.78	lipid metabolism
17386_at	AT2G21140	proline-rich protein family	5.96	7.14	
19577_at	AT1G65400	disease resistance protein (TIR class), putative	4.37	6.8	disease
18876_at	AT2G39980	transferase family	3.66	6.31	
13956_at	AT2G38110	phospholipid/glycerol acyltransferase family	3.25	6.19	lipid metabolism
19365_s_at	AT4G39330	aromatic alcohol:NADP+ oxidoreductase	3.48	4.57	disease
13577_s_at	AT4G24510	CER2	2.09	4.23	wax biosynthesis
15341_at	AT2G32200	hypothetical protein	2.31	4.14	wax biosynthesis
19892_at	AT2G38870	protease inhibitor -related	2.68	4.14	disease
13296_at	AT3G15540	auxin-responsive protein IAA19	2.63	3.88	auxin response
17961_at	AT1G01120	fatty acid elongase 3-ketoacyl-CoA synthase 1 (KCS1)	3.71	3.62	wax biosynthesis
17449_at	AT4G14440	enoyl-CoA hydratase/isomerase family	3.44	3.28	lipid metabolism
13916_at	AT2G19800	expressed protein	2.34	3.05	
17119_s_at	At2G06050	12-oxophytodienoate reductase (OPR3)(DDE1)	2.12	2.98	disease
Down-regulated genes					
20344_at	AT2G15090	fatty acid elongase 1 (FAE1), putative	-3.75	-20.89	wax biosynthesis
12239_at	AT4G29020	putative glycine-rich protein 5	-7.78	-10.01	
12998_at	AT3G47800	aldose 1-epimerase family	-2.77	-8.81	carbohydrate metabolism
16137_s_at	AT2G02950	phytochrome kinase substrate 1 (PKS1)	-2.74	-6.96	light response
12574_at	AT3G60140	pectinacetyltransferase family	-7.55	-5.44	cell wall metabolism
12916_at	AT1G19670	coronatine-induced protein 1 (COR1)	-2.04	-3.86	disease
17342_at	AT1G77210	sugar transporter, putative	-2.06	-3.57	carbohydrate metabolism
18533_at	AT5G65730	xyloglucan endotransglycosylase, putative	-2.59	-3.47	cell wall metabolism
17840_at	AT2G43570	glycosyl hydrolase family 19 (chitinase)	-2.1	-2.96	disease
15058_s_at	AT4G37980	putative cinnamyl-alcohol dehydrogenase EL13-1	-2.95	-2.63	disease
14635_s_at	AT2G14610	pathogenesis-related protein 1 (PR-1)	-3.12	-2.07	disease