

## Supplementary Figure S5

	Gene ID	Gene Name	<i>wakl10</i> vs WT	<i>OE1</i> vs WT	<i>OE2</i> vs WT	
senescence markers	AT1G79680	WAKL10	0.03	115.64	61.50	
	AT5G45890	SAG12	0.96	0.95	0.93	
	AT4G22920	SGR1	0.94	0.92	0.89	
	AT3G44880	PAO	0.98	0.94	0.92	
	AT5G38410	RBCS3B	0.84	0.88	0.85	
cell expansins	AT1G69530	EXPA1	0.57	1.23	1.00	
	AT3G29030	EXPA5	0.34	0.96	0.84	
	AT2G28950	EXPA6	0.48	1.12	0.93	
	AT2G40610	EXPA8	0.16	0.98	0.84	
	AT1G26770	EXPA10	0.35	1.13	0.97	
	AT1G20190	EXPA11	0.13	1.32	1.16	
	AT4G28250	EXPB3	0.32	1.05	1.12	
defense responsive genes	AT1G10550	XTH33	3.72	0.02	0.03	***
	AT2G14610	PR1	1.17	19.67	16.69	***
	AT1G75040	PR5	0.76	16.64	11.45	***
	AT2G43570	CHI	1.41	12.48	8.28	***
	AT1G02450	NIMIN1	1.54	14.34	8.44	***
	AT3G45860	CRK4	1.07	2.87	2.25	*
	AT4G23210	CRK13	1.57	7.34	4.15	***
	AT4G23280	CRK20	1.39	4.12	3.61	**
	AT4G23140	CRK6	1.24	11.34	8.08	***
	AT4G23150	CRK7	1.33	10.75	7.44	***
	AT4G23310	CRK23	1.65	5.16	4.28	***
	AT5G24110	WRKY30	1.03	4.85	5.22	***
	AT5G22570	WRKY38	0.94	3.44	4.52	**
	AT5G26170	WRKY50	1.30	3.56	2.32	*
	AT5G64810	WRKY51	1.41	9.23	6.19	***
	AT2G46400	WRKY46	0.33	1.05	1.15	
	AT3G56400	WRKY70	0.49	0.98	1.02	

**Supplementary Figure S5.** Further confirmation of the relative expression levels of genes encoding cell expansins and those involved in defense responses in senescent leaves of *AtWAKL10 OE1* line. Leaves 6 and 7 with less than 20% leaf area yellowing were collected from wild type, *wakl10* mutant and both *AtWAKL10 OE* lines for transcriptional expression analysis. The relative expression levels of tested transcripts in *AtWAKL10 OE1* line showed a similar trend as that in *AtWAKL10 OE2* line. Data were averages of biological triplicates. Significant differences for *OE1* compared with the wild type were indicated by asterisks and determined by Student's *t*-test (\**p* < 0.05; \*\**p* < 0.01 and \*\*\**p* < 0.001).