

Table 10. Gene set 3 (39 genes): Continuous red light (Rc)-Induced genes displaying moderately to robustly greater Rc-light-induced expression in the *pif3* mutant than in WT.

AGI LOCUS	DESCRIPTION	MFI(WT) (R1/D1)	MFI(<i>pif3</i>) (R1/D1)	Inverse MFIR (<i>pif3</i> /WT)	BIN
Transcription (TX)					
AT5G04340	zinc finger (C2H2 type) family protein (ZF7)	2.87	7.36	2.57	G
AT5G59820	zinc finger (C2H2 type) family protein (ZAT12)(ZF5)	2.59	9.19	3.54	G
AT5G05410	DRE-binding protein (DREB2A)(CBF2)	2.27	6.45	2.85	G
AT3G24500	ethylene-responsive transcriptional coactivator,	2.17	8.75	4.03	G
AT5G63790	no apical meristem (NAM) family protein	1.66	3.83	2.30	G
AT2G47270	expressed protein	1.54	2.45	1.59	F
AT1G71030	myb family transcription factor	1.53	2.50	1.64	F
AT1G77450	no apical meristem (NAM) family protein	1.42	2.73	1.92	F
AT1G01720	no apical meristem (NAM) family protein	1.31	2.36	1.80	F
Cellular Metabolism (CM)					
AT2G36790	UDP-glucuronosyl/UDP-glucosyl	3.85	6.64	1.73	F
AT4G13180	short-chain dehydrogenase/reductase	1.86	2.92	1.57	F
AT1G07350	transformer serine/arginine-rich ribonucleoprotein	1.50	3.24	2.17	G
AT4G24380	expressed protein	1.41	3.25	2.30	G
AT5G45340	cytochrome P450	1.38	2.35	1.70	F
Signaling (S)					
AT5G49480	sodium-inducible calcium-binding protein (ACP1)	3.97	6.40	1.61	F
AT3G09350	armadillo/beta-catenin repeat family protein	1.63	5.42	3.32	G
AT1G63090	F-box family protein	1.60	2.52	1.58	F
Transport (TR)					
AT1G79410	transporter-related low similarity to organic anion transporter 3	1.86	3.50	1.88	F
Growth/Development (G/D)					
AT5G12110	elongation factor 1B alpha-subunit 1 (eEF1Balpha1)	1.33	3.13	2.36	G
Stress/Defense (S/D)					
AT3G12580	heat shock protein 70,	2.76	10.62	3.85	G
AT2G20560	DNAJ heat shock family protein SP Q9UDY4 DnaJ homolog	2.38	12.13	5.09	G
AT1G74310	heat shock protein 101 (HSP101)	2.37	13.17	5.55	G
AT4G12400	stress-inducible protein,	2.31	9.68	4.18	G
AT3G09440	heat shock cognate 70 kDa protein 3 (HSC70-3)	2.16	3.26	1.50	F
AT5G52640	heat shock protein 81-1 (HSP81-1)	2.15	12.11	5.64	G
AT5G47910	respiratory burst oxidase protein D (RbohD)	2.11	3.26	1.55	F
AT3G44630	disease resistance protein RPP1-WsB-like	1.85	2.87	1.55	F
AT3G14200	DNAJ heat shock N-terminal domain-containing protein	1.72	3.49	2.02	G
AT1G59860	17.6 kDa class I heat shock protein (HSP17.6A-CI)	1.56	15.24	9.77	G
AT1G72940	disease resistance protein (TIR-NBS class),	1.47	2.84	1.93	F
AT5G16990	NADP-dependent oxidoreductase	1.44	2.61	1.82	F

AT2G47730	glutathione S-transferase 6 (GST6)	1.40	2.42	1.72	F
Hypothetical/Unknown (H/U)					
AT5G12010	expressed protein	2.00	4.74	2.36	G
AT3G51660	macrophage migration inhibitory factor family protein	1.99	4.43	2.23	G
AT5G59510	expressed protein	1.95	3.90	2.01	G
AT5G64510	expressed protein	1.88	5.40	2.88	G
AT3G07090	expressed protein	1.71	3.29	1.92	F
AT2G19310	expressed protein	1.54	3.15	2.05	G
AT4G29780	expressed protein	1.39	4.37	3.15	G

This set comprises Bins F and G in Fig. 3.

Column-heading definitions:

AGI locus: AGI locus number.

Description: Brief gene description or name derived primarily from current TIGR and TAIR websites.

MFI(WT)(R1/D1): Mean Fold Induction of expression in wild-type (WT) Arabidopsis seedlings exposed to 1 h Rc (R1) over the level in dark control seedlings (D1).

MFI(*pif3*)(R1/D1): Mean Fold Induction of expression in *pif3* mutant seedlings exposed to 1 h Rc (R1) over the levels in dark control seedlings (D1).

Inverse MFIR(*pif3*/WT): Mean Fold Induction Ratio = $[\text{MFI}(\textit{pif3})(\text{R1/D1})] \div [\text{MFI}(\textit{WT})(\text{R1/D1})]$.

Bin: From Fig. 3. Bin F: genes with inverse MFIR(*pif3*/WT) of 1.5-2. Bin G: genes with an inverse MFIR(*pif3*/WT) ≥ 2 .

Genes are grouped into functional categories as indicated and arrayed within these categories by magnitude of Rc-responsiveness in WT (MFI(WT)(R1/D1)) in descending order.