

Biological functions of genes in PoGOs.

Group	PoGO	Genes	Function	Reference
A	1	DPBF4 (EEL), AREB3	Fine regulation of LEA (EEL), ABA responsiveness, drought and high salinity signaling	Bensmihen <i>et al.</i> (2005) - J Exp Bot.
				Bensmihen <i>et al.</i> (2002)
				Uno <i>et al.</i> (2000) - Proc Natl Acad Sci
	2	FD, FDP	Signaling of flowering time	Mathieu <i>et al.</i> (2007) - Curr Biol.
				Abe <i>et al.</i> (2005) - Science.
				Wellmer <i>et al.</i> (2006) - PLoS Genet.
	3	OSE2, GBF4, OSE2-like	Stress and ABA responsiveness, seed development	Choi <i>et al.</i> (2000) - J Biol Chem.
				Cooper <i>et al.</i> (2003) - Proc Natl Acad Sci
	4	ABI5, DPBF2, DPBF1Ha	LEA gene ABA-dependent induction, seed oil biosynthesis, sugar signaling, leaf senescence	Nishimura <i>et al.</i> (2007) - Plant J
				Wang <i>et al.</i> (2007) - Planta.
				Bensmihen <i>et al.</i> (2004) - FEBS Lett.
				Pourtau <i>et al.</i> (2004) - Planta.
				Brocard-Gifford <i>et al.</i> (2003) - Plant Physiol
	5	TRAB1, ABF1-4, PvZIP6, PHI2, RIP55, ABI5Hv	ABA responsiveness, plant development, ABA signaling phosphate-dependent, fruit maturation, glucose signaling	Hobo <i>et al.</i> (1999) - Proc Natl Acad Sci
				Davies and Robinson (2000) - Plant Physiol.
Kim <i>et al.</i> (2004) - Plant J.				
Kang <i>et al.</i> (2002) - Plant Cell.				
Kagaya <i>et al.</i> (2002) - Plant Cell.				
Sano and Nagata (2002) - Plant Cell Physiol.				
B	1	AtbZIP28 and 17	Endoplasmatic reticulum responses	Liu <i>et al.</i> (2007) - Plant J.
C	1	REB, O2, OHP, Bzo2h3, CPRF2Pc, RISBZ1	Reserve protein accumulation, regulation of seed expression genes, energetic metabolism	Yamamoto <i>et al.</i> (2006) - Plant Physiol.
				Kemper <i>et al.</i> (1999) - Plant Cell.
				Baena-González <i>et al.</i> (2007) - Nature
	2	Bzo2h1	Cell death, basal defense, proline accumulation, seed storage protein gene activation	Wellmer <i>et al.</i> (1999) - J Biol Chem
				Weltmeier <i>et al.</i> (2006) - EMBO J.
				Kaminaka <i>et al.</i> (2006) - EMBO J.
3	RITA, Bzo2h2	Seed development, senescence, vascular tissue formation	Lara <i>et al.</i> (2003) - J Biol Chem.	
			Silveira <i>et al.</i> (2007) - Plant Sci	
	1	-	-	Izawa <i>et al.</i> (1994) - Plant Cell
	2	LG2Zm	Ligule formation, establishment of the leaf blade-sheath boundary	Harper and Freeling (1996) - Genetics

			stream boundary		
D	3	TGA3, TGA1, OBF4, STGA1Gm, TGA1.1Pv, MBF2St, PG13Nt, NITFLe	Phosphorus deficiency responsiveness, auxin response, marker of the end of cellular division, salicylic acid response, systemic resistance, jasmonic acid suppression, defense signalling in roots	Walsh <i>et al.</i> (1998) - Genes Dev.	
				Kesarwani <i>et al.</i> (2007) - Plant Physiol.	
				Zhang <i>et al.</i> (2006) - Plant J.	
				Johnson <i>et al.</i> (2003) - Plant Cell.	
				Ndamukong <i>et al.</i> (2007) - Plant J.	
	Foley <i>et al.</i> (2004) - FEBS Lett.				
	4	Pan		Floral organ number determination	Hepworth <i>et al.</i> (2005) - Plant Cell
					Chuang <i>et al.</i> (1999) - Genes Dev.
	5	TGA2.1 and 2.2Pv, TGA2,5,6, TGA2.2		Pathogen, auxin and salicylic acid response	Thibaud-Nissen <i>et al.</i> (2006) - Plant J. 2006
Kim and Delaney (2002) - Plant J.					
Kang and Klessing (2005) - Plant Mol Biol					
Zhang <i>et al.</i> (2003) - Plant Cell.					
E	1	AtbZIP34 and 61	Plant development	Shen <i>et al.</i> (2007) - Biochem Biophys Res Commun.	
F	1	-	-		
	2	-	-		
G	1	CPRF1Pc, ROM2, Osbz8, GBF1Zm, GBF1Bn, TAF2 and 3Nt	Light responsiveness, maturation and LEA gene repression, ABA regulation, Adh activation, photomorphogenesis	Sehnke <i>et al.</i> (2005) - Cell Res.	
				Tamai <i>et al.</i> (2002) - Plant Cell Physiol	
				Feldbrugge <i>et al.</i> (1994) - Plant Cell.	
	2	ROM1		Maturation gene repression	Chern <i>et al.</i> (1996) - Plant Cell. (1)
					Chern <i>et al.</i> (1996) - Plant Cell. (2)
3	CPRF4aPc		Light responsiveness	Sprenger-Haussels and Weisshaar (2000) - Plant J	
4	EmBP1aZm, HALF1Ta, Embp1Ta		Reserve protein control	Kircher <i>et al.</i> (1998) - Mol Gen Genet	
				Okanami <i>et al.</i> (1996) - Genes Cells.	
				Eckardt <i>et al.</i> (1998) - Plant Mol Biol.	
H	1	Hy5Like, THY5	Photomorphogenesis, light mediated gene expression	Hill <i>et al.</i> (1996) - J Biol Chem.	
	2	Hy5, THY5Le	Photomorphogenesis, light mediated gene expression, anthocyanin metabolism	Holm <i>et al.</i> (2002) - Genes Dev.	
	1	VIP1, RSGNt, PKSf1	Cell elongation, VirE protein interaction, T-DNA integration, control of gibberellin accumulation	Vandenbussche <i>et al.</i> (2007) - Plant J.	
				Shin <i>et al.</i> (2007) - Plant J.	
				Lee <i>et al.</i> (2007) - Plant Cell.	
		RF2a, PosF21	Vascular development, pathogen response	Jonassen <i>et al.</i> (2007) - Planta	
				Anand <i>et al.</i> (2007) - Plant Cell.	
				Li <i>et al.</i> (2005) - Proc Natl Acad Sci USA	
				Fukazawa <i>et al.</i> (2000) - Plant Cell	
				Dai <i>et al.</i> (2003) - J Biol Chem	

I	2			Zhu <i>et al.</i> (2002) - Plant Cell.
				Yin <i>et al.</i> (1997) - EMBO J.
	3	RF2b	Pathogen response	Liu <i>et al.</i> (2007) - Biochem J
				Dai <i>et al.</i> (2004) - Proc Natl Acad Sci USA
	4	VSF1Le	Control of xylem gene expression	Torres-Schumann <i>et al.</i> (1996) - Plant J
			Ringli and Keller (1998) - Plant Mol Biol.	
PoGPI1	UNE4	Female gametophyte development	Pagnussat <i>et al.</i> (2005) - Development	
J	1	-	-	
K	1	AtbZIP60	ER stress	Iwata <i>et al.</i> (2005) - Proc Natl Acad Sci
L	1	-	-	
	2	-	-	
S	S1	AAK01953Pa, AAK25822Pv	Water deficit response	Rodriguez-Uribe and O'Connell (2006) - Journal of Experimental Botany
	SE1	-	-	
	SM1	-	-	
	SE2	PPI1Cc,BZI-2Nt, CPRF7Pc, ATB2, GBF5	Light response, hypoosmolarity response, pathogen defence	Satoh <i>et al.</i> (2004) - Plant Cell Physiology
				Wiese <i>et al.</i> (2005) - Biochemical Society Transactions
				Rook <i>et al.</i> (1998) - The Plant Journal
				Rook <i>et al.</i> (1998) - Plant Molecular Biology
				Strathmann <i>et al.</i> (2001) - The Plant Journal
				Rügner <i>et al.</i> (2001) - Mol Genet Genomics
	Lee <i>et al.</i> (2002) - Mol Plant Microbe Interact			
	SM2	mLIP15, OBF1Zm, OsbZIP86, OsbZIP87	Cold response and signaling	Singh <i>et al.</i> (1990) - The Plant Cell
				Shimizu <i>et al.</i> (2005) - Plant Cell Physiol
				Aguan <i>et al.</i> (1993) - Mol Gen Genet.
			Kusano <i>et al.</i> (1995) - Mol Gen Genet.	
SE3	TBZFNt, BZI-3Nt, AAD55394Le, TBZ17, CAA74022, CAA774023, CpZIP1, CpZIP2, ABZ1, BZI-4, CPRF6, AtbZIP53	Hypoosmolarity response, light response, senescence, histone regulation, drought response, ABA signaling, anaerobic response	Satoh <i>et al.</i> (2004) - Plant Cell Physiology	
			Weltmeier <i>et al.</i> (2006) - The EMBO Journal	
			Rügner <i>et al.</i> (2001) - Mol Genet Genomics	
			Yang <i>et al.</i> (2001) - Plant Physiology	
			Martinez-Garcia <i>et al.</i> (1998) - The Plant Journal	
			Ditzer and Bartels (2006) - Plant Mol Biol	
			Sell and Hehl (2004) - Eur. J. Biochem.	
Stankovic <i>et al.</i> (2000) - Planta				