

Table S1. A summary of processes affected by class I TCPs and their interacting partners. See text for details. Abbreviations are as mentioned in text.

TCP	Interacting protein	Type	Effect of the interaction	Process	Organism	Reference
AtTCP14 AtTCP15 AtTCP22	DA1 DAR1 DAR2	ubiquitin receptor	TCP degradation	cell proliferation	<i>Arabidopsis thaliana</i>	(52) (127)
AtTCP15	ERF4	transcription factor	inhibits TCP transcriptional activity	cell cycle regulation	<i>Arabidopsis thaliana</i>	(78)
AtTCP15	PIF4	transcription factor	increases binding to target genes	cell expansion, thermomorphogenesis	<i>Arabidopsis thaliana</i>	(62)
AtTCP14 AtTCP15	DELLAs	transcriptional repressors	inhibits TCP transcriptional activity	germination, stem growth	<i>Arabidopsis thaliana</i>	(51) (56)
AtTCP14	DOF6	transcription factor	non tested	germination	<i>Arabidopsis thaliana</i>	(72)
AtTCP14	MPK8	MAP kinase	increases TCP transcriptional activity	germination	<i>Arabidopsis thaliana</i>	(55)
AtTCP15	GLK1	transcription factor	increases binding to target genes	cotyledon development	<i>Arabidopsis thaliana</i>	(66)
AtTCP14	ORANGE	DnaJ-like zinc finger domain protein	inhibits TCP transcriptional activity	greening	<i>Arabidopsis thaliana</i>	(97)
AtTCP15	MYB106	transcription factor	Non tested	epidermis development	<i>Arabidopsis thaliana</i>	(79)
AtTCP7	NF-Ys	transcription factor	increases binding to target genes	flowering	<i>Arabidopsis thaliana</i>	(61)
AtTCP7	CO	transcription factor	non tested	flowering	<i>Arabidopsis thaliana</i>	(61)
AtTCP7 AtTCP14 AtTCP15 AtTCP22 AtTCP23	FT	transcription factor	non tested	flowering	<i>Arabidopsis thaliana</i>	(84)
AtTCP22 AtTCP23	NF-Ys	transcription factor	non tested	flowering	<i>Arabidopsis thaliana</i>	(83)
AtTCP22	CRY2	blue light receptor	increases binding to target genes	circadian clock regulation	<i>Arabidopsis thaliana</i>	(99)
AtTCP22	PPK1	protein kinase	increases binding to target genes	circadian clock regulation	<i>Arabidopsis thaliana</i>	(99)
AtTCP20 AtTCP21 AtTCP22	LWD1	WD repeat-containing protein	increases transcriptional activity	circadian clock regulation	<i>Arabidopsis thaliana</i>	(88) (99)
AtTCP20	NLP6 NLP7	transcription factor	increases TCP transcriptional activity	nitrate signaling	<i>Arabidopsis thaliana</i>	(102)
AtTCP20	HBI1	transcription factor	increases TCP transcriptional activity	nitrate signaling	<i>Arabidopsis thaliana</i>	(104)
AtTCP14 AtTCP15	SPINDLY	O-fucosyltransferase	prevents TCP proteolysis	CK signaling	<i>Arabidopsis thaliana</i>	(128) (129) (130)
MdTCP46	MdABI5	transcription factor	represses MdABI5 binding to target genes	ABA response	<i>Malus domestica</i>	(24)
AaTCP14 AaTCP15	AaORA	transcription factor	increases TCP transcriptional activity	artemisinin biosynthesis	<i>Artemisia Annua</i>	(81) (82)

AaTCP14	AaJAZ8	JAZ protein	represses TCP transcriptional activity	artemisinin biosynthesis	<i>Artemisia Annua</i>	(82)
AtTCP14 AtTCP15	MOS1	HLA-B ASSOCIATED TRANSCRIPT2 (BAT2) domain-containing protein	increases binding to TCP target genes	plant immunity	<i>Arabidopsis thaliana</i>	(53)
AtTCP15	NPR1	transcriptional cofactor	increases binding to target genes	plant immunity	<i>Arabidopsis thaliana</i>	(92)
AtTCP8 AtTCP14 AtTCP15	SRFR1	tetratricopeptide (TPR) protein	non tested	plant immunity	<i>Arabidopsis thaliana</i>	(107)
AtTCP8 AtTCP14 AtTCP15	ZRKs	kinase	non tested	plant immunity	<i>Arabidopsis thaliana</i>	(111)
AtTCP14	HopBB1	bacterial type III effector	TCP degradation	plant immunity	<i>Arabidopsis thaliana</i>	(114)
AtTCP21	NSs	viral pathogen effector	inhibits phytohormone receptors function	plant immunity	<i>Arabidopsis thaliana</i>	(120)
AtTCP21	Tsw	immune receptor	immune effector recognition	plant immunity	<i>Arabidopsis thaliana</i>	(120)