Analysis of the *TCP* genes expressed in the inflorescence of the orchid *Orchis italica*

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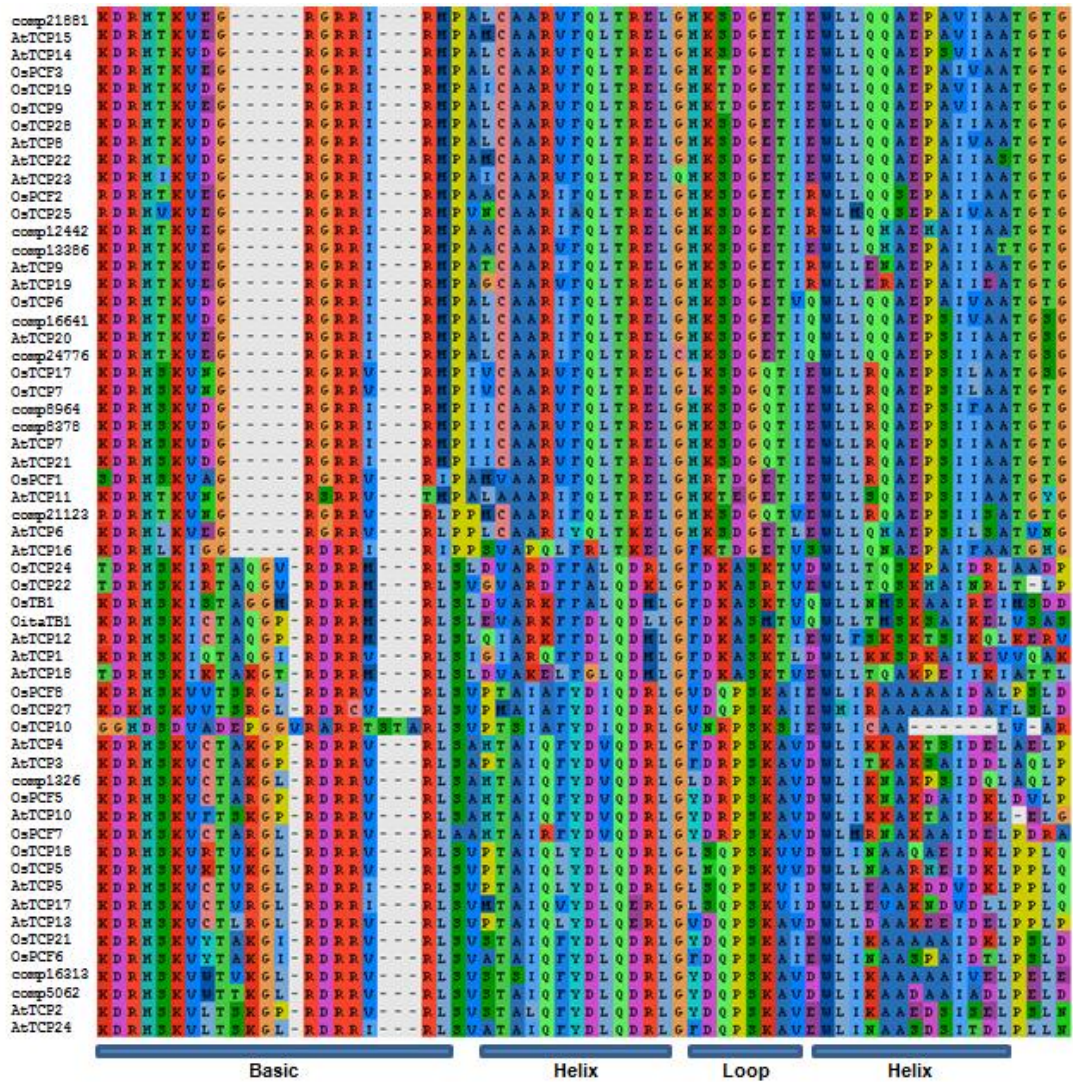
Figure S1 Multiple amino acid alignment of the TCP domains of *Orchis italica*, *Arabidopsis thaliana* and *Oryza sativa*.
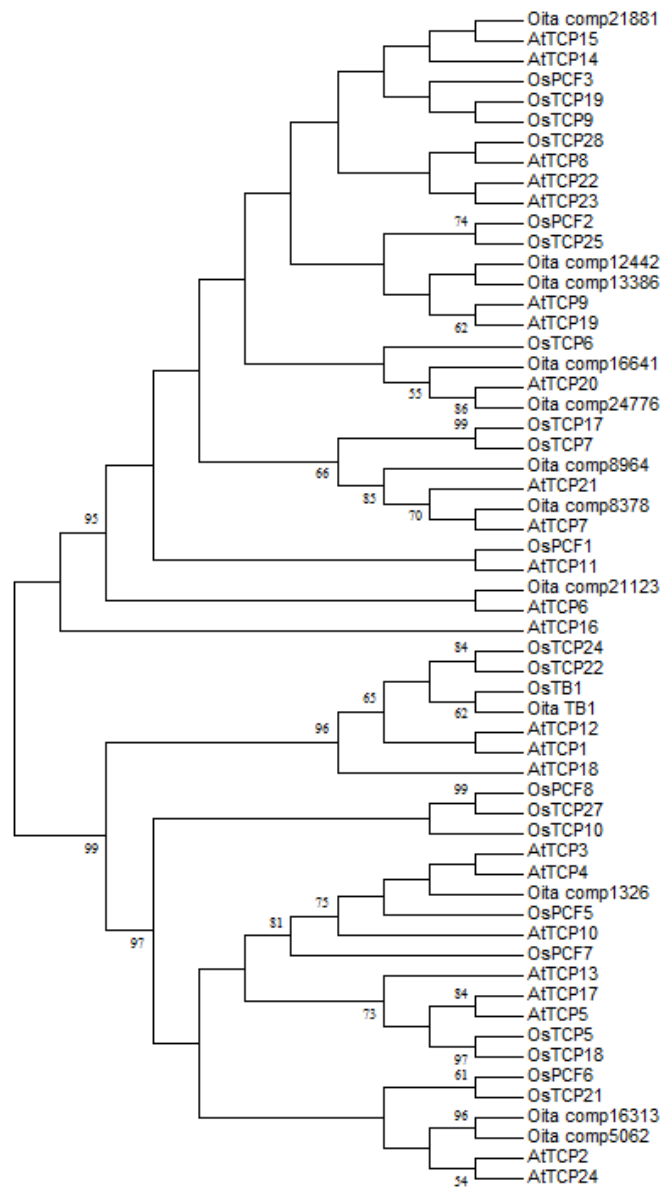
Supplementary Figure S2

Figure S2 The Minimum Evolution tree obtained from the amino acid alignment of the TCP domain of

Orchis italica, *Arabidopsis thaliana* and *Oryza sativa* (Supplementary Table S1). The bootstrap percentages

> 50% are shown next to the branches.

Supplementary Figure S3

Figure S3 The Maximum Likelihood tree obtained from the amino acid alignment of the TCP domain of

Orchis italica, *Arabidopsis thaliana* and *Oryza sativa* (Supplementary Table S1). The bootstrap percentages

> 50% are shown next to the branches.
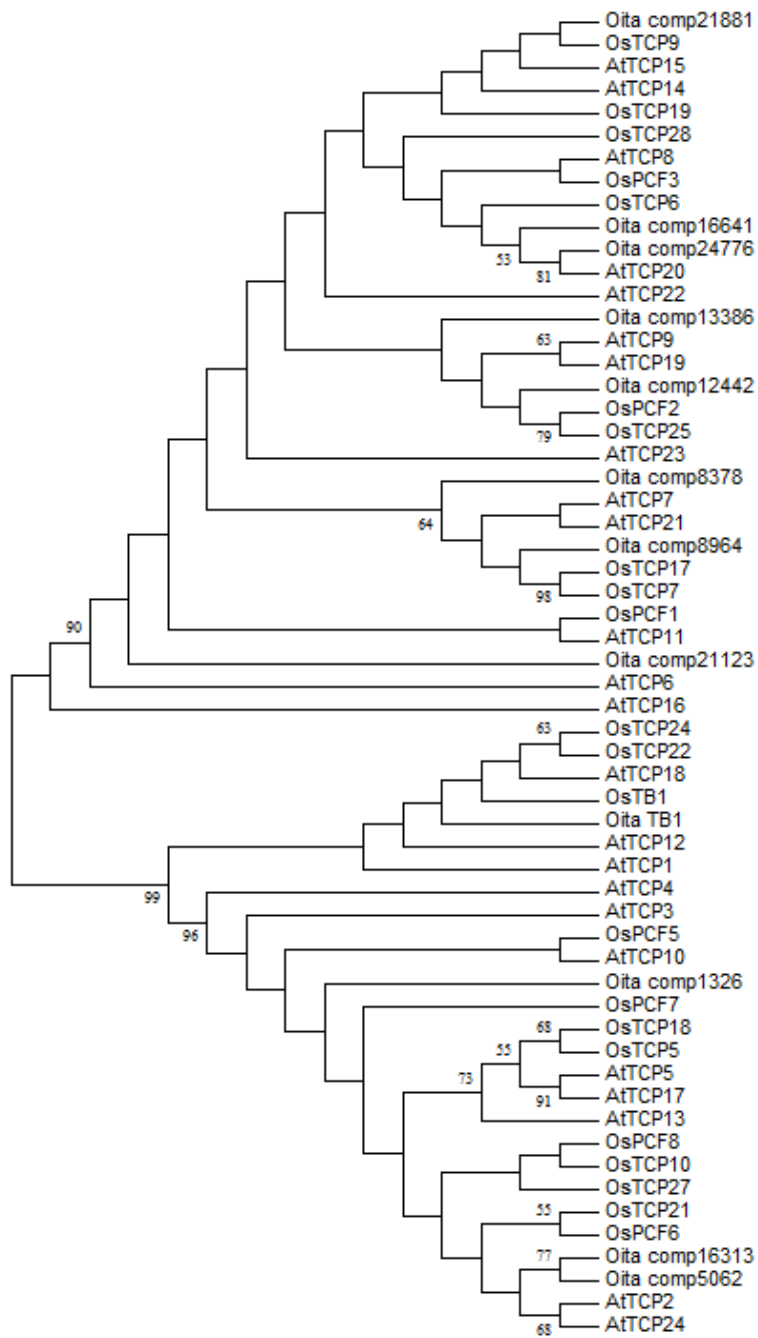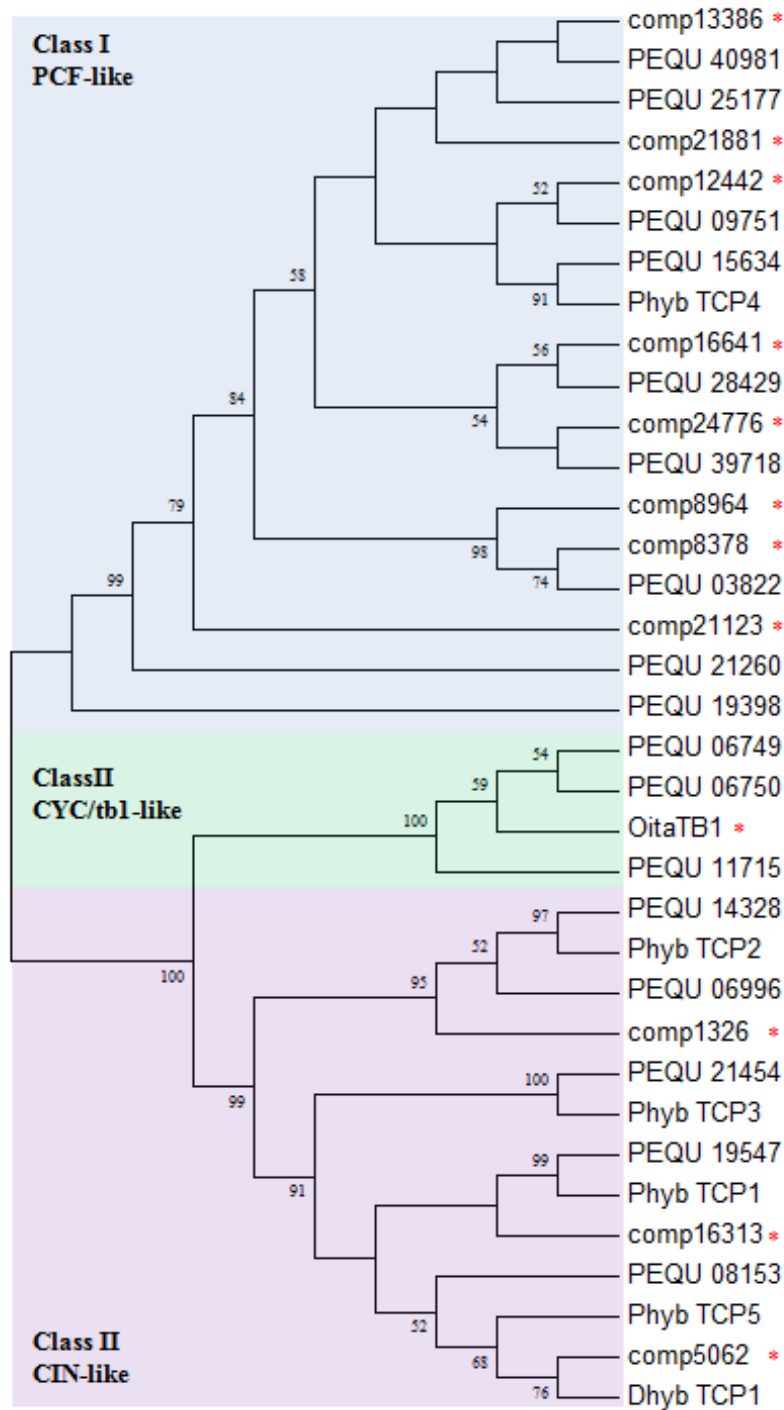
Supplementary Figure S4

Figure S4 The NJ tree obtained from the amino acid alignment of the TCP domains of the orchids *Orchis italica*, *Dendrobium hybrid cultivar*, *Phalaenopsis equestris* and *P. hybrid cultivar*. Numbers indicate the bootstrap values, shown only when > 50%. The red asterisks indicate the sequences identified in the present study.
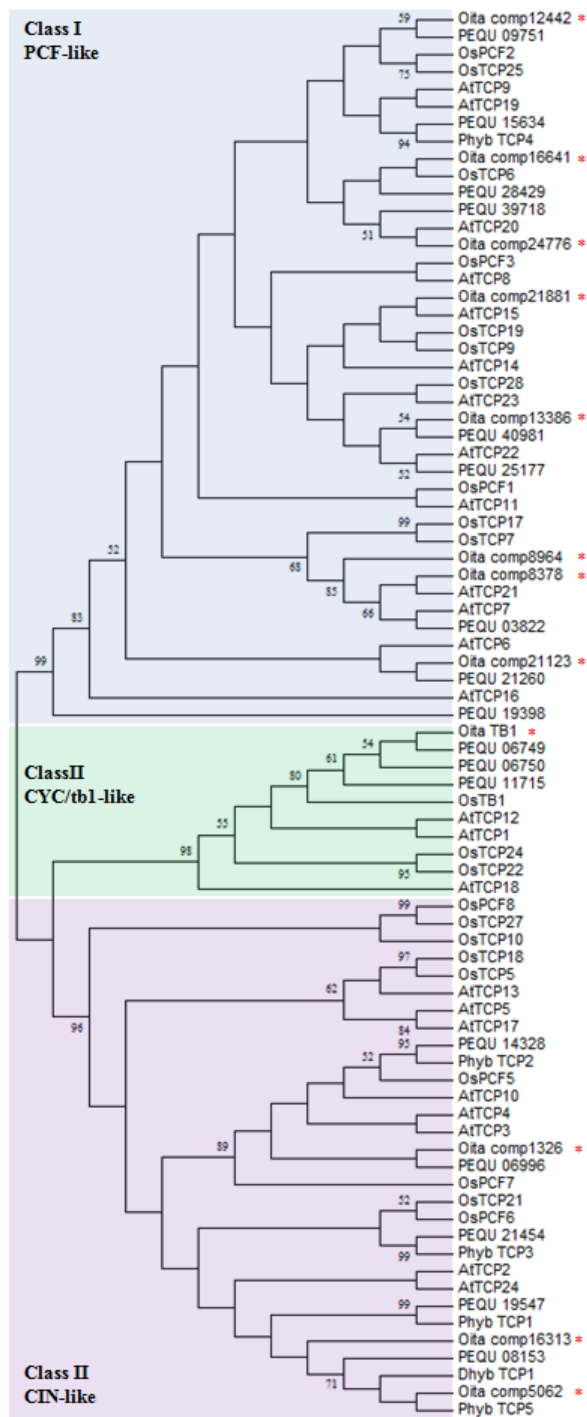
Supplementary Figure S5

Figure S5 The NJ tree obtained from the amino acid alignment of the TCP domains of *Orchis italica*, *Dendrobium hybrid cultivar*, *Phalaenopsis equestris*, *P. hybrid cultivar*, *Arabidopsis thaliana* and *Oryza sativa*. Numbers indicate the bootstrap values, shown only when > 50%. The red asterisks indicate the sequences identified in the present study.

Supplementary Figure S6

■ Motif 1 [KR][KR]D[RS][HT][KS][DK][RV]HT[KA][VK][GED]GR[GD]RR[IV]R[ML][PS][AV]L[CT]A[AI][RQ][VFI][FY][QD]L[TQ][RD][ER]LG[HF][KD]S[DP][GS][EK][TA]
[IV][ED]WL[LI]QQA[EK]P[AS]I[ID]A[AL]TG[TL]GTIPA[NS][FA]S

■ Motif 2 RIVRVS[RV][VT]FGGKDRHSKVCT[VS][KR]GLRDRR[VI]RLSVPTAI[QA][FL]YD[LI]QDRLG[LFV][DNS]QPSK[VA][IV][ED]WL[IL]NAAK[AD][AES]IDKLP

■ Motif 3 LHHH[HQ]HQHQx

□ Motif 4 GGGGGGGE

■ Motif 5 [KS]E[SL]R[AE]KARERA[RK]ERT[AKM][EKA][KE]

■ Motif 6 QQQQQQ

■ Motif 7 [ST]LN[IV]SLRSSGS[ST]LS[AS]

■ Motif 8 S[FL]LP[PAH]S[IM][DG][SA]D[SAR][IV][AS]D[TS][IV]KS[FL]FP

■ Motif 9 [FM][AF][SA][LIS][LH][GAS][GA][HAN][AGHV][AHNQ][QA][MI]PGLEL[GA]LSQ[DE]G[HNQ][IV]GVL[NA][PAS][QHY][SA][LF][SNT]Q[FI]Y[LHQ][QH][MV][GV]

□ Motif 10 [PAG][GA][AGT][FV]W[MA][VL]P[AV]

■ Motif 11 [HN]L[GN][LIM]LA[AS]L[NS][AG][YAG]

■ Motif 12 AAAAAA

□ Motif 13 [FS][QN]RG[TP]LQS[NS][SN][PQS][PS]L[FHI]

■ Motif 14 [VGM][PSG]SG[LV]H[FL]MNF[PA]A[PT][MPI][AM][ALF][LF]

■ Motif 15 [PAQ]MWA[VFI]AP[GN]

□ Motif 16 [RKL][PR][NDT]F[PS]L[QE][LI][LY][EDG]KKE[EKLS]QQ[CD]

□ Motif 17 IV[EA]VQGG[HG][IH][VI][RV]

■ Motif 18 [SP]RI[IV]RVSRA[SF]G

■ Motif 19 [KD][SD][GTA][CE][SV]S[TA]SETSK[GS]S[VDT]

■ Motif 20 [HY][LTY][GF][NS][GNS][PD][NH][MI][GS][MN][GN][MV][MF][APT][YC][NT][PTV][ATV][NPS][TS]G[EH][HR]Q[DEM][IMV][FHQ][QP][FV]S[FIT]M[QT]DH[AV
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Figure S6 The consensus sequence of the conserved motifs of the TCP proteins of *Orchis italica*,

Arabidopsis thaliana and *Oryza sativa*.

Supplementary Data S1 The nucleotide sequence (in fasta format) of the *TCP* transcripts present in the

inflorescence transcriptome of *Orchis italica*.

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Supplementary Table S1 The sequence identifier, name or annotation and type of the TCP proteins of *Arabidopsis thaliana*, *Dendrobium hybrid cultivar*, *Oryza sativa*, *Phalaenopsis equestris* and *P. hybrid cultivar* examined.

Species	Identifier	Name or annotation	Type
Arabidopsis thaliana	At1g67260	AtTCP1	CYC/TB1
Arabidopsis thaliana	At4g18390	AtTCP2	CIN
Arabidopsis thaliana	At1g53230	AtTCP3	CIN
Arabidopsis thaliana	At3g15030	AtTCP4	CIN
Arabidopsis thaliana	At5g60970	AtTCP5	CIN
Arabidopsis thaliana	At5g41030	AtTCP6	PCF
Arabidopsis thaliana	At5g23280	AtTCP7	PCF
Arabidopsis thaliana	At1g58100	AtTCP8	PCF
Arabidopsis thaliana	At2g45680	AtTCP9	PCF
Arabidopsis thaliana	At2g31070	AtTCP10	CIN
Arabidopsis thaliana	At2g37000	AtTCP11	PCF
Arabidopsis thaliana	At1g68800	AtTCP12	CYC/TB1
Arabidopsis thaliana	At3g02150	AtTCP13	CIN
Arabidopsis thaliana	At3g47620	AtTCP14	PCF
Arabidopsis thaliana	At1g69690	AtTCP15	PCF
Arabidopsis thaliana	At3g45150	AtTCP16	PCF
Arabidopsis thaliana	At5g08070	AtTCP17	CIN
Arabidopsis thaliana	At3g18550	AtTCP18	CYC/TB1
Arabidopsis thaliana	At5g51910	AtTCP19	PCF
Arabidopsis thaliana	At3g27010	AtTCP20	PCF
Arabidopsis thaliana	At5g08330	AtTCP21	PCF
Arabidopsis thaliana	At1g72010	AtTCP22	PCF
Arabidopsis thaliana	At1g35560	AtTCP23	PCF
Arabidopsis thaliana	At1g30210	AtTCP24	CIN
Oryza sativa	Os04g11830	OsPCF1	PCF
Oryza sativa	Os08g43160	OsPCF2	PCF
Oryza sativa	Os11g07460	OsPCF3	PCF
Oryza sativa	Os01g11550	OsPCF5	CIN
Oryza sativa	Os03g57190	OsPCF6	CIN
Oryza sativa	Os01g55100	OsPCF7	CIN
Oryza sativa	Os12g42190	OsPCF8	CIN
Oryza sativa	Os03g49880	OsTB1	CYC/TB1
Oryza sativa	Os01g55750	OsTCP5	CIN
Oryza sativa	Os01g69980	OsTCP6	PCF
Oryza sativa	Os02g42380	OsTCP7	PCF
Oryza sativa	Os02g51280	OsTCP9	PCF

Oryza sativa	Os02g51310	OsTCP10	CIN
Oryza sativa	Os04g44440	OsTCP17	PCF
Oryza sativa	Os05g43760	OsTCP18	CIN
Oryza sativa	Os06g12230	OsTCP19	PCF
Oryza sativa	Os07g05720	OsTCP21	CIN
Oryza sativa	Os08g33530	OsTCP22	CYC/TB1
Oryza sativa	Os09g24480	OsTCP24	CYC/TB1
Oryza sativa	Os09g34950	OsTCP25	PCF
Oryza sativa	Os12g02090	OsTCP27	CIN
Oryza sativa	Os12g07480	OsTCP28	PCF
Dendrobium hybrid cultivar	DQ517495	Dhyb_TCP1	CIN
Phalaenopsis hybrid cultivar	HQ439603	Phyb_TCP1	CIN
Phalaenopsis hybrid cultivar	HQ439604	Phyb_TCP2	CIN
Phalaenopsis hybrid cultivar	HQ439605	Phyb_TCP3	CIN
Phalaenopsis hybrid cultivar	HQ439606	Phyb_TCP4	PCF
Phalaenopsis hybrid cultivar	HQ439607	Phyb_TCP5	CIN
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Phalaenopsis equestris	PEQU_15634	PCF2_ORYSJ Transcription factor PCF2 OS=Oryza sativa subsp. japonica GN=PCF2 PE=1 SV=1	PCF
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Phalaenopsis equestris	PEQU_21454	TCP2_ARATH Transcription factor TCP2 OS=Arabidopsis thaliana GN=TCP2 PE=2 SV=1	CIN
Phalaenopsis equestris	PEQU_09751	PCF2_ORYSJ Transcription factor PCF2 OS=Oryza sativa subsp. japonica GN=PCF2 PE=1 SV=1	PCF
Phalaenopsis equestris	PEQU_14328	TCP4_ARATH Transcription factor TCP4 OS=Arabidopsis thaliana GN=TCP4 PE=2 SV=1	CIN
Phalaenopsis equestris	PEQU_19547	TCP2_ARATH Transcription factor TCP2 OS=Arabidopsis thaliana GN=TCP2 PE=2 SV=1	CIN
Phalaenopsis equestris	PEQU_21260	TCP14_ARATH Transcription factor TCP14 OS=Arabidopsis thaliana GN=TCP14 PE=2 SV=1	PCF
Phalaenopsis equestris	PEQU_25177	TCP15_ARATH Transcription factor TCP15 OS=Arabidopsis thaliana GN=TCP15 PE=2 SV=1	PCF
Phalaenopsis equestris	PEQU_06996	TCP3_ARATH Transcription factor TCP3 OS=Arabidopsis thaliana GN=TCP3 PE=2 SV=1	CIN
Phalaenopsis equestris	PEQU_08153	TCP2_ARATH Transcription factor TCP2 OS=Arabidopsis thaliana GN=TCP2 PE=2 SV=1	CIN
Phalaenopsis equestris	PEQU_40981	TCP23_ARATH Transcription factor TCP23 OS=Arabidopsis thaliana GN=TCP23 PE=1 SV=1	PCF
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Phalaenopsis equestris	PEQU_39718	TCP20_ARATH Transcription factor TCP20 OS=Arabidopsis thaliana GN=TCP20 PE=1 SV=1	PCF
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Phalaenopsis equestris	PEQU_11715	TB1_MAIZE Transcription factor TEOSINTE BRANCHED 1 OS=Zea mays GN=TB1 PE=2 SV=2	CYC/TB1

Supplementary Table S2 The nucleotide sequence of the primers used.

Name	Target	Forward	Reverse	Application
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comp8964_c0_seq1	comp_8964	CAGTCTCCGGGAGGTACG	ACAAAGAGGCGAGGAGGTT	Real Time PCR
comp21881_c0_seq1	comp_21881	GGATTCTTGCAGCCCTTAAC	GAGTCACTCGTGCTCATCGT	Real Time PCR
comp16641_c0_seq1	comp_16641	CATATGGGACAGGGAAGAGG	GAGTCGACCCATCAGAATCA	Real Time PCR
comp24776_c0_seq1	comp_24776	GGCTCGAGCTAGGACTTTCA	GTGCTGTTGATGGTGATGCT	Real Time PCR
comp13386_c0_seq1	comp_13386	CCCTTGCAGTTTATGTCGAG	AAGGTTCGAATCAGCAATCC	Real Time PCR
comp12442_c0_seq1	comp_12442	CCGGAACTATACCTGCCATC	GAAGTGGATGATCGGAACCT	Real Time PCR
comp16313_c0_seq1	comp_16313	TTTCCATCATGCAAGACCAT	AGGTGAATTGGACTGAAGGG	Real Time PCR
comp5062_c0_seq1	comp_5062	GTCAGCTCCAGGGATTGACT	AGCAGTGCCAAAGAAGAAGG	Real Time PCR
comp1326_c0_seq1	comp_1326	TGGTCCAGAACCAGTTTGTC	GCTGTTAGGTGCATCTGGTG	Real Time PCR
comp21123_c0_seq1	comp_21123	CCCACAAGCTTCTTCCAGTT	AACAGCATGGCCGTGTAATA	Real Time PCR
TB1_Oita_TCP	OitaTB1	CAAGTTCTTCGATCTCCAGGAT	GACGAGCTCTTTAATGGCTGATT	Real Time PCR
REAL_5.8S_ITA	5.8S	GGATATCTTGGCTCTCGCAT	GATGGTTCACGGGATTCTG	Real Time PCR
Stem-Loop_miR319	miR319		GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACAGGGAG	Stem-Loop Real Time PCR
miR319F	miR319	GCGGCGGTTGGACTGAAGGGAG		Stem-Loop Real Time PCR
Stem-Loop_5.8S	5.8S		GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACGATTCA	Stem-Loop Real Time PCR
REAL_5.8S_ITA_F	5.8S	GGATATCTTGGCTCTCGCAT		Stem-Loop Real Time PCR
Stem-Loop_Univ_Rev	Universal		GTGCAGGGTCCGAGGT	Stem-Loop Real Time PCR
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1326_Rinn	comp_1326		GCTGTTAGGTGCATCTGGTG	modified 5' RACE
5062_Rout	comp_5062		CCTGCAGACGGCCATTGAAACCGCC	modified 5' RACE
5062_Rinn	comp_5062		AGCAGTGCCAAAGAAGAAGG	modified 5' RACE
16313_Rout	comp_16313		CCGGCTGCATGTATGCCTCATTACAG	modified 5' RACE
16313_Rinn	comp_16313		CTGGTTCTCCAGCGAGCTTCCCGCTG	modified 5' RACE