Supplemental Table S1. List of primers used for cloning and real-time RT-PCR analysis

Gene	Forward (F) and reverse (R) primers (5' to 3')	Amplicon (bp)
Cloning		
TUA2	(F) CCGAATTCAARTGYGGYATYAACTA + (R)oligo dT primer	515
	(R) TGGTGGCCAAACCCTCACGGTCCTTCTC + (F)SMART II primer	1,532
TUA3	(F) CCGAATTCAARTGYGGYATYAACTA + (R)oligo dT primer	571
	(R) GAATAGGAAACAAGTCGCAGTAGC + (F)SMART II primer	1,541
TUA4	(F) GAAGTTGGTGCTGAAGGTGT	495
	(R) CAAATACGAAGACAGACATAGTCTTGAG	
	(R) CAAATACGAAGACAGACATAGTCTTGAG + (F)SMART II primer	1,592
TUA5	(F) GAAMGACCCACMTACACMAA	865
	(R) CAGTAGCTTTAGCATACGAAAGAATAGG	
	(F) ACATGCATGCGAGAGTGCATTTCGATCCA	1,356
	(R) CAGTAGCTTTAGCATACGAAAGAATAGG	
TUA6	(F) ATGAGGGAGATAATAAGCATACATATTGGAC	1,350
	(R) CTAGTAATCTTCCTCCTCACCTTCCTC	
TUA7	(F) ATGAGAGAGTGCATCTCAATCCACATTGG	1,356
	(R) TTACATGTATTCCTCTCCATCATCGTCTTCC	
TUA8	(F) ATGAGGGAGATAATAAGCATACATATTGGAC	1,350
	(R) TCAGTAATCTTCGTCCTCACCCTCG	
RT-PCR		
TUA1	(F) CTGATARTAGGRAGTGTACTTCCTTTTGTG	142
	(R) GAGAAAATTARYAATAGGSCTCCAATCCTTGTA	
TUA2	(F) GTWATTAMCACCAGCAATCGAGAAGGACC	162
	(R) GTCGAMCTCGAAACCATAAAAACACATTAA	
TUA3	(F) CTGCATTACCTGTTTGTGCTTGACACTT	186
	(R) TCATGCTTCAGAGACATAAATTGTGTTCCA	
TUA4	(F) CTTGCAATAGMATTCATCTGGGAAATGGT	156
	(R) CTTCAAATACGAAGACAGACATAGTCTTG	
TUA5	(F) CTTCGTARTGGGTGTAGCCTAATATGATG	126
	(R) CACCTTYGAAACAATAAAAGCTTCAAATGG	
TUA7	(F) GGAAGTTGTTCTGCCAATGGGCTC	94
	(R) CTTGTCCATCCAGTTACCTACAACC	
TUA6/8	(F) GCGAGGAAACAGCAGTTGTATGTC + TUA6/8(R)	102 (*TUA6*); 100 (*TUA8*)
TUA6	(F) GATTACAAGTTTGATCTCATGTATTCC + TUA6/8(R)	294
TUA8	(F) GACCACAAGTTTGATCTCATGTACTCT + TUA6/8(R)	292
-	TUA6/8(R) CAATTCACAGATCACTGACATGGA	-
TUB1	(R) ATTACAGCAAAAGATGACAACT + TUB(F)	280
TUB2	(R) AAACCCTACATACTAAAGAAG + TUB(F)	237
TUB3	(R) TAACTCCACATATTGGAAAGAC + TUB(F)	280
TUB4	(R) AACATTGCTTGAAAATAACTCC + TUB(F)	276
TUB5/6	(R) CCCAACTCCAAGCATTYTCAT + TUB(F)	198
TUB7	(R) ATTTGACCCCCCAACAACAGA + TUB(F)	250
TUB8	(R) TAGTTTGACCCCCCAATGAGA + TUB(F)	246
TUB9	(R) CACCAGAAACAACTCATCCTT + TUB(F)	214
TUB10	(R) TCATGAGTGACCACCAAAACA + TUB(F)	271
TUB11	(R) CATTCACCGTCATCGTCATAAG + TUB(F)	128
TUB12	(R) ATCACACAAACATTCATCACTG + TUB(F)	261
TUB13	(R) CAGCAAGACTGCAAAATCGGT + TUB(F)	204
TUB14	(R) CCAACTCTACCATTCACACTAC + TUB(F)	275
TUB15	(R) ATGTATGAAAAATAGCAGCAGC + TUB(F)	207
TUB16	(R) CATGCAGAATACGCTGTAAAAG + TUB(F)	213
TUB17	(R) GGAGCAAACATATACCTGTCG + TUB(F)	211
TUB18	(R) AGCATCGATAGGAATCGGATA + TUB(F)	222
TUB19	(R) TGATGAAATAGCACAGCACAGA + TUB(F)	192
TUB20	(R) GCGTTAAGGAAATAGCCACAAT + TUB(F)	192
-	TUB(F) TTGCAYTGGTAYACHGGNGARGG (consensus primer)	-

Supplemental Table S2. List of proteins and their GenBank accession numbers used in sequence alignment and phylogenetic analyses

Species	Protein Name	Accession No.
α-tubulin		
Arabidopsis thaliana	ArathTUA1	At1g64740
	ArathTUA2	At1g50010
	ArathTUA3	At5g19770
	ArathTUA4	At1g04820
	ArathTUA5	At5g19770
	ArathTUA6	At4g14960
Betula pendula (birch)	BetpeTUA	CAB66336
Chlamydomonas reinhardtii (green alga)	ChlreTUA2	AAN87017
Eleusine indica (goosegrass)	EleinTUA1	CAA06618
	EleinTUA2	O22348
	EleinTUA3	O22349
Gossypium hirsutum (cotton)	GoshiTUA2	AAQ92662
	GoshiTUA3	AAD50627
	GoshiTUA4	AAQ92663
	GoshiTUA5	AAD50629
Hordeum vulgare (barley)	HorvuTUA1	CAA67942
	HorvuTUA2	CAA69724
	HorvuTUA3	CAA10663
Medicago truncatula (barrel medic)	MedtrTUA3	ABN08980
	MedtrTUA1	ABE93145
	MedtrTUA2	ABE86411
Oryza sativa (rice)	OrysaTUA1	Os03g0726100
	OrysaTUA2	Os11g0247300
	OrysaTUA3	Os07g0574800
	OrysaTUA4	Os03g0219300
Prunus dulcis (almond)	PruduTUA	CAA47635
Pseudotsuga menziesii (douglas fir)	PsemeTUA1	AAV92379
Setaria viridis (green foxtail)	SetviTUA1	CAE52514
	SetviTUA2	CAE52515
Solanum tuberosum (potato)	SoltuTUA1	ABB02631
	SoltuTUA2	ABB16994
Zea mays (maize)	ZeamaTUA2	CAA33733
	ZeamaTUA3	CAA44861
	ZeamaTUA5	XAA44862
	ZeamaTUA6	CAA44863
	GoshiTUA1	AAQ92661
β-tubulin		
Arabidopsis thaliana	ArathTUB1	At1g75780
	ArathTUB2	At5g62690
	ArathTUB3	At5g62700
	ArathTUB4	At5g44340
	ArathTUB5	At1g20010
	ArathTUB6	At5g12250
	ArathTUB7	At2g29550
	ArathTUB8	At5g23860

	ArathTUB9	At4g20890
Chlamydomonas reinhardtii (green alga)	ChlreTUB1/2	P04690
Eleusine indica (goosegrass)	EleinTUB1	AAD20178
	EleinTUB2	AAD20179
	EleinTUB3	AAD20180
	EleinTUB4	AAD20181
Gossypium hirsutum (cotton)	GoshiTUB1	AAL92118
	GoshiTUB5	AAQ92665
	GoshiTUB6	AAQ92666
	GoshiTUB7	AAQ92667
	GoshiTUB10	AAN32988
Medicago truncatula (barrel medic)	MedtrTUB3	ABE83854
	MedtrTUB4	ABE83857
	MedtrTUB5	ABE90057
	MedtrTUB1	ABE81376
	MedtrTUB6	ABE92128
	MedtrTUB2	ABE81426
Oryza sativa (rice)	OrysaTUB1	Os01g0282800
	OrysaTUB2	Os03g0105600
	OrysaTUB3	Os06g0671900
	OrysaTUB4	Os01g0805900
	OrysaTUB5	Os02g0167300
	OrysaTUB6	Os05g0413200
	OrysaTUB7	Os03g0780600
	OrysaTUB8	Os03g0661300
Setaria viridis (green foxtail)	SetviTUB1	CAE52516
	SetviTUB2	CAE52517
Solanum tuberosum (potato)	SoltuTUB3	ABA46773
	SoltuTUB4	ABA81852
	SoltuTUB1	CAA83847
	SoltuTUB2	CAA83853
Triticum aestivum (wheat)	TriaeTUB1	AAD10487
	TriaeTUB2	AAD10488
	TriaeTUB3	AAD10489
	TriaeTUB4	AAD10490
	TriaeTUB5	AAD10492
Zea mays (maize)	ZeamaTUB1	CAA37060
	ZeamaTUB2	CAA37061
	ZeamaTUB3	CAA52718
	ZeamaTUB4	CAA52719
	ZeamaTUB5	CAA52720
	ZeamaTUB6	Q41783
	ZeamaTUB7	Q41784
	ZeamaTUB8	Q41785
Zinnia elegans (zinnia)	ZinelTUB1	BAA82637
	ZinelTUB2	BAA82638