

Table S1: Information on Sequences selected for alignments and phylogenetic analyses from NCBI GenBank.

Taxon and Species	Protein Name	Accession Numbers	lineage
Magnoliaceae			
<i>Manglietia patungensis</i>	MapaAGL6-1	ATB53133.1	
	MapaAGL6-2	ATB53135.1	
Amborellaceae			
<i>Amborella trichopoda</i>	AmtrAGL6	AAY25580.1	AGL6
Aristolochiaceae			
<i>Aristolochia fimbriata</i>	AfimAGL6	ALV83432.1	AGL6
	AfimAP3	ALV83437.1	AP3/PI
	AfimPI	ALV83436.1	AP3/PI
	AfimAG	ALV83435.1	AG
	AfimSTK	ALV83434.1	STK
	AfimFUL	ALV83433.1	AP1/FUL
	AfimSEP1	ALV83431.1	SEP
	AfimSEP2	ALV83430.1	SEP
Calycanthaceae			
<i>Chimonanthus praecox</i>	CpAGL6	ACN88212.1	AGL6
	CpAP3	ABK34952.1	AP3/PI
Papaveraceae			
<i>Bocconia frutescens</i>	BofrAGL6	AOC50668.1	AGL6
	BofrSEP1-1	AOC50675.1	SEP
	BofrSEP2	AOC50674.1	SEP
	BofrFUL	AOC50671.1	AP1/FUL
	BofrAP3-1	AOC50670.1	AP3/PI
	BofrPI-1	AOC50677.1	AP3/PI
	BofrAG	AOC50669.1	AG
Berberidaceae			
<i>Epimedium sagittatum</i>	EsAGL6	AEX58638.1	AGL6
	EsAGL2-1	AEX58639.1	SEP
	EsAGL2-2	AEX58640.1	SEP
	EsFUL	AEX58637.1	AP1/FUL
Ranunculaceae			
<i>Aquilegia coerulea</i>	AqcoAGL6	AFX72880.1	AGL6
<i>Nigella damascena</i>	NdSEP1	ALM95517.1	SEP
	NdSEP2	ALM95518.1	SEP
	NdSEP3	ALM95519.1	SEP
	NdFUL1	ALM95510.1	AP1/FUL
	NdFUL2	ALM95511.1	AP1/FUL
	NdAP3-1	ALM95512.1	AP3/PI
	NdAP3-2	ALM95513.1	AP3/PI
	NdAP3-3	AGH39931.1	AP3/PI
	NdPI1	ALM95515.1	AP3/PI
	NdPI2	ALM95516.1	AP3/PI
	NdAG1	ALM95507.1	AG
	NdAG2	ALM95508.1	AG
	NdAGL6	ALM95509.1	AGL6
Sterculiaceae			
<i>Theobroma cacao</i>	ThcaAGL6	EOX96140.1	AGL6
Brassicaceae			
<i>Arabidopsis thaliana</i>	AGL6	AEC10582.1	AGL6
	AGL13	AEE80158.1	AGL6
	AP1/AGL7	P35631.2	AP1/FUL
	FUL/AGL8	Q38876.1	AP1/FUL

	AGL79	AAN52802.1	AP1/FUL
	SEP1/AGL2	P29382.2	SEP
	SEP2/AGL4	P29384.1	SEP
	SEP3/AGL9	NP_850953.1	SEP
	SEP4/AGL3	P29383.2	SEP
	AP3	P35632.1	AP3/PI
	PI	P48007.1	AP3/PI
	SHP1/AGL1	P29381.1	PLE
	SHP2/AGL5	P29385.1	PLE
	AG	P17839.2	AG
	STK/AGL11	Q38836.1	STK
Rubiaceae			
<i>Coffea arabica</i>	CaAGL6	AHW58046.1	AGL6
	CaAP1	AHW58038.1	AP1/FUL
	CaFUL	AHW58040.1	AP1/FUL
	CaSEP1/2	AHW58036.1	SEP
	CaSEP3	AHW58034.1	SEP
	CaSEP4	AHW58033.1	SEP
	CaAP3	AHW58030.1	AP3/PI
	CaPI	AHW58035.1	AP3/PI
	CaAG	AHW58037.1	AG
Solanaceae			
<i>Solanum lycopersicum</i>	SIAGL6	NP_001348459.1	AGL6
	SIFUL	NP_001234173.2	AP1/FUL
	TAP3	ABG73412.1	AP3/PI
	TPI	ABG73411.1	AP3/PI
	TAGL1	NP_001300859.1	PLE
	TAG1	AAA34197.1	AG
	TAGL11	AAM33102.2	STK
<i>Petunia x hybrida</i>	PhAGL6	BAA94287.1	AGL6
Araceae			
<i>Acorus americanus</i>	AcamAGL6	AGT80613.1	AGL6
Orchidaceae			
<i>Erycina pusilla</i>	EpMADS3	AHM92079.1	AGL6
	EpMADS4	AHM92080.1	AGL6
	EpMADS5	AHM92081.1	AGL6
	EpMADS10	AHM92086.1	AP1/FUL
	EpMADS11	AHM92087.1	AP1/FUL
	EpMADS12	AHM92088.1	AP1/FUL
	EpSEP1-1	AHM92082.1	SEP
	EpMADS7	AHM92083.1	SEP
	EpMADS8	AHM92084.1	SEP
	EpMADS9	AHM92085.1	SEP
	EpMADS13	AHM92089.1	AP3
	EpMADS14	AHM92090.1	AP3
	EpMADS15	AHM92091.1	AP3
	EpMADS16	AHM92092.1	PI
	EpMADS20	AHM92096.1	AG
	EpMADS21	AHM92097.1	AG
	EpMADS22	AHM92098.1	AG
	EpMADS23	AHM92099.1	STK
Poaceae			
<i>Oryza sativa</i>	OsMADS6	Q6EU39.1	AGL6
	OsMADS17	ACX35552.1	AGL6
	OsMADS14	Q10CQ1.2	AP1/FUL
	OsMADS15	Q6Q9I2.2	AP1/FUL
	OsMADS18	Q0D4T4.1	AP1/FUL
	OsMADS20	Q2QQA3.2	AP1/FUL

OsMADS34	Q6Q9H6.2	SEP
OsMADS2	Q40702.1	AP3/PI
OsMADS4	Q40703.3	AP3/PI
OsMADS16	Q944S9.2	AP3/PI
OsMADS3	Q40704.1	AG
OsMADS58	Q2V0P1.1	AG
