

**Supplementary Table 1.** Voucher number list for the sequences of Magnoliaceae species used in the determination of *psbA-trnH*, *matK*, and *rbcL*.

Species	Source <sup>a</sup>	Accession number of DNA region		
		<i>psbA-trnH</i>	<i>matK</i>	<i>rbcL</i>
<i>Dugandiodendron lenticellatum</i>	GenBank		AB055538	
<i>Dugandiodendron mahechae</i>	GenBank		AB055539	
<i>Elmerrillia ovalis</i>	GenBank		AB055545	
<i>Elmerrillia ovalis</i>	GenBank		AY008983	AY008906
<i>Kadsura longipedunculata</i>	Guangzhou		JN050038	
<i>Kadsura oblongifolia</i>	Guangzhou		JN050039	
<i>Kmeria duperreana</i>	GenBank			AY008942
<i>Kmeria lotungensis</i>	GenBank		AF123475	
<i>Kmeria omeiensis</i>	GenBank		AF123476	
<i>Kmeria septentrionalis</i>	Longli	JN050170	JN050052	
<i>Kmeria septentrionalis</i>	GenBank		AB055540	AY008943
<i>Kmeria septentrionalis</i>	GenBank		AF123471	
<i>Kmeria septentrionalis</i>	GenBank		AF123472	
<i>Kmeria septentrionalis</i>	GenBank		AY009007	
<i>Kmeria yunnanensis</i>	GenBank		AF123474	
<i>Liriodendron chinense</i>	GenBank	AB021046	AF123481	AY008946
<i>Liriodendron chinense</i>	GenBank			AY841593
<i>Liriodendron chinense</i>	GenBank			L12654
<i>Liriodendron chinense</i> × <i>tulipifera</i>	Guangzhou		JN050093	JN050135
<i>Liriodendron tulipifera</i>	GenBank	AB021047	AF123480	AF190430
<i>Liriodendron tulipifera</i>	GenBank	FJ493286		AY008947
<i>Liriodendron tulipifera</i>	GenBank			X54346
<i>Magnolia acuminata</i>	GenBank	AB021041		AY008915
<i>Magnolia albosericea</i>	Guangzhou	JN050191	JN050072	
<i>Magnolia albosericea</i>	GenBank		AF123464	
<i>Magnolia biondii</i>	Guangzhou	GQ435217	JN050031	JN050109
<i>Magnolia biondii</i>	Guangzhou	JN050151	JN050032	
<i>Magnolia biondii</i>	GenBank		AY008986	AY008909
<i>Magnolia campbellii</i>	GenBank		AB055531	AY008912
<i>Magnolia campbellii</i>	GenBank		AY008988	
<i>Magnolia caricifragrans</i>	GenBank		AB055533	
<i>Magnolia carsonii</i>	GenBank		AB055529	
<i>Magnolia cathcartii</i>	GenBank		AB055530	
<i>Magnolia cathcartii</i>	GenBank		AY008984	AY008907
<i>Magnolia cathcartii</i>	GenBank		AF123473	
<i>Magnolia champaca</i>	Guangzhou	JN050148	JN050028	
<i>Magnolia championii</i>	Longli	JN050152	JN050033	JN050110
<i>Magnolia championii</i>	GenBank		AF548648	
<i>Magnolia coco</i>	Guangzhou	JN050155	JN050035	JN050111

<i>Magnolia coco</i>	GenBank	AB021034		AY008928
<i>Magnolia cylindrica</i>	Guangzhou	JN050186	JN050067	
<i>Magnolia cylindrica</i>	GenBank		AY008989	AY008914
<i>Magnolia dawsoniana</i>	GenBank		AY008987	AY008911
<i>Magnolia dealbata</i>	GenBank		AY009008	AY008945
<i>Magnolia dealbata</i>	GenBank		AB055525	
<i>Magnolia delavayi</i>	Guangzhou	JN050200	JN050082	
<i>Magnolia delavayi</i>	GenBank	AB021035	AF548651	
<i>Magnolia delavayi</i> var. <i>ssp</i>	Guangzhou	JN050180	JN050061	JN050123
<i>Magnolia denudata</i>	Guangzhou	JN050156	JN050036	
<i>Magnolia denudata</i>	Guangzhou	JN050157	JN050037	
<i>Magnolia denudata</i>	GenBank	AB021037	AF123465	AY008913
<i>Magnolia denudata</i> var. <i>pyriformis</i>	Guangzhou		JN050090	
<i>Magnolia dodecapetala</i>	GenBank		AY009005	AY008939
<i>Magnolia dodecapetala</i>	GenBank		AB055534	
<i>Magnolia fraseri</i>	GenBank			AY008940
<i>Magnolia fraseri</i> var. <i>fraseri</i>	GenBank	AB021025		
<i>Magnolia fraseri</i> var. <i>pyramidata</i>	GenBank			AY008941
<i>Magnolia gigantifolia</i>	GenBank		AY009000	AY008932
<i>Magnolia grandiflora</i>	Guangzhou	GQ435214	JN050022	JN050103
<i>Magnolia grandiflora</i>	Guangzhou	JN050143	JN050023	JN050104
<i>Magnolia grandiflora</i>	Guangzhou	JN050144	JN050024	JN050105
<i>Magnolia grandiflora</i>	GenBank	AB021020	AF548640	AF119180
<i>Magnolia grandiflora</i>	GenBank	EF590711	AM889723	AY008925
<i>Magnolia grandiflora</i>	GenBank	FJ493287	GQ248150	AY298837
<i>Magnolia grandiflora</i>	GenBank	GQ248333	GQ248151	
<i>Magnolia grandiflora</i>	GenBank	GQ248334		
<i>Magnolia guangnanensis</i>	GenBank	AB021021	AF548645	AY008926
<i>Magnolia guatemalensis</i>	GenBank	GQ248335	GQ248152	
<i>Magnolia guatemalensis</i>	GenBank		AM889724	
<i>Magnolia henryi</i>	Guangzhou	JN050168	JN050050	JN050117
<i>Magnolia henryi</i>	GenBank		AY008997	AY008929
<i>Magnolia hypoleuca</i>	GenBank		AF548650	
<i>Magnolia iltisiana</i>	GenBank		AB055520	
<i>Magnolia kobus</i>	Guangzhou	JN050199	JN050081	JN050130
<i>Magnolia kobus</i>	GenBank	AY841425	AY743476	AY743438
<i>Magnolia kobus</i>	GenBank	AB021038		AY008910
<i>Magnolia liliflora</i>	Longli	JN050213	JN050097	JN050138
<i>Magnolia liliflora</i>	Guangzhou	JN050214	JN050098	JN050139
<i>Magnolia liliflora</i> Hongyuanbao	Guangzhou	JN050182	JN050063	JN050124
<i>Magnolia liliifera</i>	GenBank		AY008998	AY008930
<i>Magnolia liliifera</i> var. <i>obovata</i>	GenBank	AB021043		
<i>Magnolia loebneri</i>	Guangzhou	JN050195	JN050077	
<i>Magnolia macrophylla</i>	GenBank	AB021027	AF548638	AY008944
<i>Magnolia macrophylla</i>	GenBank	AB021028		X54345
<i>Magnolia menglunensis</i>	GenBank		AF548639	
<i>Magnolia mexicana</i>	GenBank		AY009004	AY008938
<i>Magnolia mexicana</i>	GenBank		AB055536	

<i>Magnolia minor</i>	GenBank		AB055535	
<i>Magnolia mulunica</i>	Guangzhou	JN050197	JN050079	
<i>Magnolia nitida</i>	GenBank	AB021036		AY008918
<i>Magnolia obovata</i>	GenBank	AB021029		
<i>Magnolia odoratissima</i>	Longli	JN050153	JN050034	
<i>Magnolia odoratissima</i>	Guangzhou	JN050154		
<i>Magnolia odoratissima</i>	GenBank		AF548646	
<i>Magnolia officinalis</i>	Longli	JN050145	JN050025	
<i>Magnolia officinalis</i>	Longli	JN050146	JN050026	
<i>Magnolia officinalis</i>	Guangzhou	JN050147	JN050027	JN050106
<i>Magnolia officinalis</i>	GenBank		AY009001	AY008933
<i>Magnolia officinalis</i>	GenBank		AF548641	
<i>Magnolia officinalis</i> var. <i>biloba</i>	GenBank	AB021030	AF548643	
<i>Magnolia ovata</i>	GenBank		AB055537	
<i>Magnolia pacifica</i>	GenBank		AB055521	
<i>Magnolia paenetauma</i>	Guangzhou	JN050162	JN050044	JN050113
<i>Magnolia paenetauma</i>	GenBank		AF548644	
<i>Magnolia panamensis</i>	GenBank		AY008996	AY008923
<i>Magnolia pealiana</i>	GenBank		AY008979	AY008901
<i>Magnolia phanerophlebia</i>	GenBank		AF548652	
<i>Magnolia polytepala</i>	Guangzhou	JN050171	JN050053	
<i>Magnolia portoricensis</i>	GenBank		AB055523	
<i>Magnolia pseudokobus</i>	GenBank		AB040152	
<i>Magnolia pterocarpa</i>	GenBank		AB055528	
<i>Magnolia pterocarpa</i>	GenBank		AY008999	AY008931
<i>Magnolia pyramidata</i>	GenBank	AB021026		
<i>Magnolia quinquepeta</i>	GenBank	AB021042		
<i>Magnolia salicifolia</i>	GenBank	AB021039		
<i>Magnolia sargentiana</i>	GenBank		AB055532	
<i>Magnolia schiedeana</i>	GenBank	AB021022	AB055550	
<i>Magnolia shangsiensis</i>	GenBank		AF548647	
<i>Magnolia sharpii</i>	GenBank	AB021023		
<i>Magnolia sieboldii</i>	Guangzhou	JN050205	JN050087	JN050132
<i>Magnolia sieboldii</i>	Longli	JN050206	JN050088	JN050133
<i>Magnolia sieboldii</i>	GenBank		AB055526	AY008935
<i>Magnolia sieboldii</i> subsp. <i>japonica</i>	GenBank	AB021033		
<i>Magnolia sieboldii</i> subsp. <i>sieboldii</i>	GenBank	AB021032		
<i>Magnolia sinica</i>	GenBank		AY008990	AY008916
<i>Magnolia sinostellata</i>	Guangzhou	JN050190	JN050071	JN050127
<i>Magnolia soulangeana</i>	Longli	JN050141	JN050020	JN050101
<i>Magnolia soulangeana</i>	Guangzhou	JN050163	JN050045	JN050114
<i>Magnolia soulangeana</i> Changchun	Guangzhou	JN050169	JN050051	
<i>Magnolia soulangeana</i> Danxin	Guangzhou	JN050181	JN050062	
<i>Magnolia soulangeana</i> Hongxia	Guangzhou	JN050183	JN050064	JN050125
<i>Magnolia soulangeana</i> Hongyun	GenBank			M58393
<i>Magnolia soulangeana</i> Zhusha	Guangzhou	JN050210	JN050094	
<i>Magnolia splendens</i>	GenBank		AY009003	AY008937
<i>Magnolia splendens</i>	GenBank		AB055524	

<i>Magnolia sprengeri</i>	Longli	JN050203	JN050085	
<i>Magnolia stellata</i>	GenBank	AB021040		AF238057
<i>Magnolia tamaulipana</i>	GenBank	AB021024		AY008927
<i>Magnolia tomentosa</i>	Guangzhou	JN050207	JN050089	
<i>Magnolia tripetala</i>	GenBank	AB021031	AF548649	AF206791
<i>Magnolia tripetala</i>	GenBank			AY008934
<i>Magnolia tripetala</i>	GenBank			AJ131927
<i>Magnolia virginiana</i>	Guangzhou	JN050172	JN050054	JN050118
<i>Magnolia virginiana</i>	GenBank	AB021018		AY008924
<i>Magnolia virginiana</i>	GenBank	AB021019		
<i>Magnolia virginiana</i>	GenBank	EF590712		
<i>Magnolia virginiana</i>	GenBank	GQ248336		
<i>Magnolia virginiana</i> var. <i>australis</i>	Guangzhou	JN050198	JN050080	JN050129
<i>Magnolia wilsonii</i>	Longli	JN050204	JN050086	JN050131
<i>Magnolia wilsonii</i>	GenBank		AY009002	AY008936
<i>Magnolia wilsonii</i>	GenBank		AB055527	
<i>Magnolia yoroconte</i>	GenBank		AB055522	
<i>Manglietia aromatica</i>	GenBank		AY008993	AY008920
<i>Manglietia chingii</i>	Guangzhou	JN050176	JN050058	JN050120
<i>Manglietia chingii</i>	Guangzhou	JN050177		
<i>Manglietia chingii</i>	Longli	JN050178	JN050059	JN050121
<i>Manglietia confifera</i>	GenBank		AB055541	
<i>Manglietia confifera</i>	GenBank		AY008994	AY008921
<i>Manglietia decidua</i>	GenBank		AB055542	
<i>Manglietia fordiana</i>	GenBank		AY952412	L12658
<i>Manglietia glauca</i>	Longli	JN050149	JN050029	JN050107
<i>Manglietia glauca</i>	Guangzhou	JN050150	JN050030	JN050108
<i>Manglietia glauca</i>	GenBank		AY008995	AY008922
<i>Manglietia glaucifolia</i>	Longli	JN050159	JN050041	
<i>Manglietia grandis</i>	Longli	JN050166	JN050048	JN050116
<i>Manglietia grandis</i>	GenBank		AY008992	AY008919
<i>Manglietia hainanensis</i>	GenBank		AF123478	
<i>Manglietia hebecarpa</i>	Guangzhou	JN050196	JN050078	
<i>Manglietia insignis</i>	Longli	JN050179	JN050060	JN050122
<i>Manglietia insignis</i>	GenBank		AB055543	
<i>Manglietia megaphylla</i>	Guangzhou	JN050167	JN050049	
<i>Manglietia moto</i>	GenBank		AF123477	
<i>Manglietia pachyclada</i>	Longli	JN050165	JN050047	JN050115
<i>Manglietia sinica</i>	GenBank		AB055544	
<i>Manglietia sinica</i>	GenBank		AF123479	
<i>Michelia alba</i>	Longli	JN050140	JN050019	JN050100
<i>Michelia alba</i>	GenBank		AF123466	
<i>Michelia baillonii</i>	GenBank		AF123469	
<i>Michelia baillonii</i>	GenBank		AY008981	AY008903
<i>Michelia cavaleriei</i>	GenBank		AY008978	AY008900
<i>Michelia champaca</i>	GenBank		AY008980	AY008902
<i>Michelia champaca</i>	GenBank			AF543714
<i>Michelia champaca</i>	GenBank			DQ182336

<i>Michelia champaca</i>	GenBank			GQ436537
<i>Michelia chapensis</i>	Longli	JN050193	JN050074	
<i>Michelia compressa</i>	GenBank	AB021044		
<i>Michelia crassipes</i>	Longli	JN050211	JN050095	JN050136
<i>Michelia crassipes</i>	Guangzhou	JN050212	JN050096	JN050137
<i>Michelia figo</i>	Guangzhou	JN050142	JN050021	JN050102
<i>Michelia figo</i>	GenBank	AB021045	AF123467	AY008905
<i>Michelia foveolata</i>	Guangzhou	JN050189	JN050070	
<i>Michelia foveolata</i>	GenBank		AF123468	
<i>Michelia fulgens</i>	Longli		JN050076	JN050128
<i>Michelia fulgens</i> var. <i>longipedunculata</i>	Guangzhou	JN050161	JN050043	
<i>Michelia guangxiensis</i>	Guangzhou	JN050175	JN050057	
<i>Michelia longipetiolata</i>	Longli	JN050160	JN050042	JN050112
<i>Michelia macclurei</i>	Longli	JN050215	JN050099	
<i>Michelia macclurei</i>	GenBank		AB055546	
<i>Michelia martinii</i>	Guangzhou	JN050187	JN050068	
<i>Michelia martinii</i>	Longli	JN050188	JN050069	
<i>Michelia maudiae</i>	Longli	JN050201	JN050083	
<i>Michelia mediocris</i>	Guangzhou	JN050158	JN050040	
<i>Michelia odora</i>	GenBank		AF123470	
<i>Michelia odora</i>	GenBank		AY008982	AY008904
<i>Michelia pachycarpa</i>	Guangzhou	JN050184	JN050065	JN050126
<i>Michelia platypetala</i>	Guangzhou	JN050192	JN050073	
<i>Michelia shiluensis</i>	Guangzhou	JN050202	JN050084	
<i>Michelia szechuanica</i>	Guangzhou	JN050164	JN050046	
<i>Michelia yunnanensis</i>	Longli	JN050208	JN050091	JN050134
<i>Pachylarnax praecalva</i>	GenBank			AY008917
<i>Parahmeria lotungensis</i>	Guangzhou	JN050194	JN050075	
<i>Parahmeria yunnanensis</i>	Longli	JN050209	JN050092	
<i>Talauma gitingensis</i>	GenBank		AF548642	
<i>Talauma hodgsoni</i>	Guangzhou	JN050173	JN050055	
<i>Tsoongiodendron odorum</i>	Longli	JN050174	JN050056	JN050119
<i>Woonyoungia septentrionalis</i>	Guangzhou	JN050185	JN050066	

<sup>a</sup> Sequences of Magnoliaceae species include those of species collected from Longli Botanical Garden of Rare Species in Guizhou Province (Longli) and the Botanical Garden at South China Institute of Botany (Guangzhou), as well as those retrieved from GenBank (Genbank).