

Table S1 Voucher and GenBank accession numbers information used in the molecular analyses.

Taxon	Locality	Voucher	GenBank accession number
<i>Paris axialis</i> H.Li	China, Yunnan, Zhaotong	Y. Ji s. n. (ZSD458)	MN174902
<i>P. bashanensis</i> F.T.Wang & Tang	China, Sichuan, Pengzhou	H. Liang and X. Zhang 1332 (CL1801)	MN174874
<i>P. yunnanensis</i> Franch. (<i>P. birmanica</i> (Takht.) H.Li & Noltie)	Myanmar, Introduced from northern Myanmar	Y. Ji 2016433 (CL89)	MN174895
<i>P. caobangensis</i> Y. H. Ji, H. Li et Z. K. Zhou	China, Yunnan, Guangnan	Y. Ji 2016618 (CL159)	MN174871
<i>P. cronquistii</i> (Takht.) H. Li	China, Sichuan, Wanyuan	Y. Ji et al. s. n. (ZSD463)	MN174903
<i>P. daliensis</i> H. Li & V. G. Soukup	China, Yunnan, Lanping	Y. Ji et al. 1859 (CL1859)	MN174885
<i>P. delavayi</i> Franch.	China, Yunnan, Dagan	Y. Ji 2016519 (CL128)	MN174870
<i>P. dulongensis</i> H.Li & Kurita	China, Yunnan, Gongshan	H. Li 57 (CL1869)	MN174887
<i>P. dunniana</i> Lévl.	China, Hainan, Wuzhishan	HYL-34 (CL38)	MN174888
<i>P. fargesii</i> Franch.	China, Hanan, Sangzhi	Y. Ji 2016414 (CL71)	MN174893

<i>P. forrestii</i> (Takht.) H.Li	China, Yunnan, Gongshan	G. Zhou s.n. (CL1808)	MN174877
<i>P. incompleta</i> M. Bieb.	Georgia	Z. Zhou and H. Sun s.n. (ylf4)	MN174898
<i>P. japonica</i> Franch. & Sav.) Franch.	Edinburgh, Cult. in Royal Botanical Garden	1974145813B (CL1805)	MN174876
<i>P. liiana</i> Y. H. Ji	China, Yunnan, Qiubei	HYL06 (cl26)	MN647563
<i>P. liiana</i> Y. H. Ji	China, Yunnan, Xichou	HYL12 (Cl31)	MN647566
<i>P. liiana</i> Y. H. Ji	China, Yunnan, Mojiang	HYL13 (Cl32)	MN647567
<i>P. liiana</i> Y. H. Ji	China, Yunnan, Yuanyang	JYH2016457 (Cl96)	MN647572
<i>P. liiana</i> Y. H. Ji	China, Yunnan, Xiping	HYL07 (Cl27)	MN647564
<i>P. liiana</i> Y. H. Ji	China, Yunnan, Jinghong	HYL08 (Cl28)	MN647565
<i>P. luquanensis</i> H. Li	China, Yunnan, Luquan	Y. Ji et al. 1865 (CL1865)	MN174886
<i>P. mairei</i> Lévl.	China, Yunnan, Lijiang	Y. Ji 20160392 (CL53)	MN174891
<i>P. marmorata</i> Stearn	China, Yunnan, Shangri-La	Y. Ji 2016503 (CL118)	MN174869
<i>P. chinensis</i> Franch.	China, Hubei, Enshi	Y. Ji 2016407 (CL64)	MN174892
<i>P. polyphylla</i> var. <i>stenophylla</i> Franch.	China, Sichuan, Luding	Y. Ji 2018051 (CL1852)	MN174884
<i>P. quadrifolia</i> L.	Netherlands	P. Bruggeman s. n. (CL1840)	MN174882
<i>P. rugosa</i> H.Li & Kurita	China, Yunnan, Changning	Y. Ji 2016525 (CL166)	MN174872

<i>P. siamensis</i> Ruchis.	Thailand, Nan	P. Umpunjun et al. PW601020-2	OP296616
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Pua, Phu Kha	S. Ruchisansakun et al. PW641019-1	OP296617
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Bo Kluea	P. Umpunjun et al. PW650420-1	OP296618
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Bo Kluea	P. Umpunjun et al. PW650420-2	OP296619
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Bo Kluea	P. Umpunjun et al. PW650420-3	OP296620
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Bo Kluea	P. Umpunjun et al. PW650420-4	OP296621
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Bo Kluea	P. Umpunjun et al. PW650420-5	OP296622
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Bo Kluea	P. Umpunjun et al. PW650420-6	OP296623
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-1	OP296624
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-2	OP296625
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-3	OP296626
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-4	OP296627
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-5	OP296628
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-6	OP296629
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-7	OP296630
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-9	OP296631

<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-10	OP296632
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-11	OP296633
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpunjun et al. PW650421-12	OP296634
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TN1-1	OP296635
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TN2-1	OP296636
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TN3-1	OP296637
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TN4-1	OP296638
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TN5-2	OP296639
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TN7-1	OP296640
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TN8-1	OP296641
<i>P. siamensis</i> Ruchis.	Thailand, Nan, Mae Charim	P. Umpumchan et al. TUN101	OP296642
<i>P. tengchongensis</i> Y.H.Ji et. al.	China, Yunnan, Tengchong	Y. Ji 361 (CL42)	MN174889
<i>P. tetraphylla</i> A.Gray	Japan	K. Inoue and T. Kubo 1609 (CL1803)	MN174875
<i>P. thibetica</i> Franch.	China, Yunnan, Tengchong	Y. Ji 20160387 (CL48)	MN174890
<i>P. undulata</i> H.Li & V.G.Soukup	China, Sichuan, Emeishan	Y. Ji et al. 1832 (CL1832)	MN174879
<i>P. vaniotii</i> H.Lév	China, Hunan, Xinning	H. Li 052 (ZSD456)	MN174901

<i>P. verticillata</i> M. Bieb.	China, Hebei, Chicheng	B. Liu 3490 (CL1837)	MN174881
<i>P. vietnamensis</i> (Takht.) H.Li	China, Yunnan, Jinping, Yunnan, China	Y. Ji et al. 1810 (CL1810)	MN174878
<i>P. xichouensis</i> H. Li.	China, Yunnan, Malipo	Y. Ji et al. 1820 (CL820)	MN174894
<i>P. yanchii</i> H. Li et al.	China, Yunnan, Jianchuan	Y. Ji 2016482 (CL106)	MN174868
<i>P. yunnanensis</i> Franch.	China, Yunnan, Wuding	Y. Ji 626 (CL169)	MN174873
<i>P. yunnanensis</i> Franch.	China, Yunnan, Chuxiong	HYL02 (cl22)	MN647562
<i>P. yunnanensis</i> Franch.	China, Yunnan, Dongchuan	JYH2016503 (Cl118)	MN647576
<i>P. yunnanensis</i> Franch.	China, Sichuan, Huidong	JYH2016424 (cl80)	MN647570
<i>P. yunnanensis</i> Franch.	China, Sichuan, Huili	JYH2016489 (cl107)	MN647573
<i>P. yunnanensis</i> 2020 Huize v	China, Yunnan, Huize	JYH2016403 (cl60)	MN647568
<i>P. yunnanensis</i> Franch.	China, Yunnan, Lanping	JYH2016516 (cl125)	MN647580
<i>P. yunnanensis</i> Franch.	China, Yunnan, Luquan	JYH2016504 (cl119)	MN647577
<i>P. yunnanensis</i> Franch.	China, Sichuan, Muli	JYH2016515 (cl124)	MN647579
<i>P. yunnanensis</i> Franch.	Myanmar, Waingmaw	JYH2016433 (cl89)	MN647571
<i>P. yunnanensis</i> Franch.	China, Yunnan, Shangri-la	JYH2016517 (cl126)	MN647581
<i>P. yunnanensis</i> Franch.	China, Yunnan, Ninglang	JYH2016498 (cl113)	MN647574

<i>P. yunnanensis</i> Franch.	China, Sichuan, Mianning	JYH2017039 (zsd465)	MN647582
<i>P. yunnanensis</i> Franch.	China, Sichuan, Yanyuan	JYH2017046 (zsd466)	MN647583
<i>P. yunnanensis</i> Franch.	China, Sichuan, Shimian	JYH2017041 (zsd467)	MN647584
<i>P. yunnanensis</i> Franch.	China, Yunnan, Weishan	JYH2016413 (cl70)	MN647569
<i>P. yunnanensis</i> Franch.	China, Yunnan, Yongping	JYH2016507 (cl121)	MN647578
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Mai, Chai Prakan	S. Ruchisansakun et al. PW641111-1	OP296643
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Mai, Chai Prakan	S. Ruchisansakun et al. PW641111-2	OP296644
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Mai, Chai Prakan	S. Ruchisansakun et al. PW641111-3	OP296645
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Mai, Chai Prakan	S. Ruchisansakun et al. PW641111-4	OP296646
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Mai, Chai Prakan	S. Ruchisansakun et al. PW641111-5	OP296647
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mae Fa Luang	P. Umpunjun et al. PW650422-1	OP296648
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mae Fa Luang	P. Umpunjun et al. PW650422-2	OP296649
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mae Fa Luang	P. Umpunjun et al. PW650422-3	OP296650
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mueang Chiang Rai	S. Ruchisansakun et al. PW641021-1	OP296651
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mueang Chiang Rai	S. Ruchisansakun et al. PW641021-2	OP296652
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mueang Chiang Rai	S. Ruchisansakun et al. PW641021-4	OP296653

<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mueang Chiang Rai	S. Ruchisansakun et al. PW641021-5/1	OP296654
<i>P. yunnanensis</i> Franch.	Thailand, Chiang Rai, Mueang Chiang Rai	S. Ruchisansakun et al. PW641021-5/2	OP296655
<i>P. yunnanensis</i> Franch.	Thailand, Lampang, Mueang Pan	S. Ruchisansakun et al. PW641109-4	OP296656
<i>P. yunnanensis</i> Franch.	Thailand, Lampang, Mueang Pan	S. Ruchisansakun et al. PW641109-5	OP296657
<i>P. yunnanensis</i> Franch.	Thailand, Lampang, Mueang Pan	S. Ruchisansakun et al. PW641109-6	OP296658
<i>P. yunnanensis</i> Franch.	Thailand, Mae Hong Son, Khun Yuam	S. Ruchisansakun et al. PW641110-1	OP296659
<i>P. yunnanensis</i> Franch.	Thailand, Mae Hong Son, Khun Yuam	S. Ruchisansakun et al. PW641110-2	OP296660
<i>P. polyphylla</i> var. <i>emeiensis</i> H. X. Yin et al.	China, Sichuan, Ya'an	Y. Ji et al. s. n. (ZSD464)	MN174904
<i>P. qiliangiana</i> H. Li et al.	China, Sichuan, Xuanhan	Y. Ji et al. 1834 (CL1834)	MN174880
<i>P. polyphylla</i> Smith	China, Yunnan, Jianchuan	L. Yang 1848 (CL1848)	MN174883
<i>T. camschatcense</i> Ker Gawl.	China, Jilin, Panshi	H. An 090 (ylf6)	MN174899
<i>T. govanianum</i> Wall. ex D. Don	China, Tibet, Dingri	H. Li and S. Chen 391 (CL1804)	MN174867
<i>T. tschonoskii</i> Maxim.	China, Yunnan, Shangri-La	YLF-95 (ylf2)	MN174897
<i>V. taliense</i> O. Loes.	China, Yunnan, Gongshan	MN174900 (ylf7)	MN174900
<i>Y. yunnanensis</i> W. W. Sm. & Jeffrey	China, Yunnan, Fugong	GLGS Expedition 33923 (Yc)	MN174896