

Supplementary Table S1. Accession list and voucher information

1 All geographic information obtained from (Govaerts *et al.* 2008)

2 Data submitted to DRYAD, available at #####

Species	BGT database # and source material	Voucher information	Geographic distribution ¹	Dryad reference number ²
<i>Lithocarpus aggregatus</i> Barnett	821 Silica	Chamchunroon 5181 (BKF), Chiang Mai, Thailand (2011)	Indo-China to Pen. Malaysia 41 THA VIE 42 MLY	#####
<i>Lithocarpus aggregatus</i> Barnett	933 Silica	Sirimongkol 424 (BKF), Khamphaengphet, Thailand (2012)	Indo-China to Pen. Malaysia 41 THA VIE 42 MLY	#####
<i>Lithocarpus apoensis</i> (Elmer) Rehder	3293 Herbarium	Price & Hernaez 745 (L), Samar, Philippines (1975)	Philippines 42 PHI	#####
<i>Lithocarpus apoensis</i> (Elmer) Rehder	3294 Herbarium	Jacobs 8000 (L), Luzon, Philippines (1968)	Philippines 42 PHI	#####
<i>Lithocarpus aspericupulus</i> (Markgr.) Rehder	3281 Herbarium	Vink 15331 (L), Vogelkop Peninsula, Papua New Guinea (1962)	New Guinea 43 NWG	#####
<i>Lithocarpus atjehensis</i> Hatus. Ex Soepadmo	3259 Herbarium	De Wilde & de Wilde-Duyfjes 16001 (L), Sumatra, Indonesia (1975)	N. Sumatra 42 SUM	#####
<i>Lithocarpus atjehensis</i> Hatus. Ex Soepadmo	3260 Herbarium	De Wilde & Wilde-Duyfjes 16128 (L), Sumatra, Indonesia (1975)	N. Sumatra 42 SUM	#####
<i>Lithocarpus auriculatus</i> (Hickel & A. Camus) A. Camus	1977 Silica	Fuse K. L2 (KYO), Laos	Indo-China 41 LAO MYA THA VIE	#####
<i>Lithocarpus bancanus</i> (Scheff.) Rehder	793 Silica	Chamchunroon 5153 (BKF), Chiang Mai, Thailand (2011)	Thailand to W. Malesia 41 THA 42 BOR MLY SUM	#####
<i>Lithocarpus bennettii</i> (Miq.) Rehder	980 Silica	Strijk 980 (BGT), Nee Soon, Singapore (2012)	Pen. Thailand to W. Malesia 41 THA 42 BOR MLY SUM	#####
<i>Lithocarpus cantleyanus</i> (King ex Hook f.) Rehder	977 Silica	Strijk 977 (BGT), Singapore (2012)	Myanmar to Malaya, Borneo 41 MYA THA 42 BOR MLY	#####
<i>Lithocarpus caudatifolius</i> (Merr.) Rehder	1367 Silica	Strijk 1367 (BGT), Sabah, Malaysia (2014)	Borneo to N. Sulawesi 42 BOR PHI SUL	#####
<i>Lithocarpus dasystachyus</i> (Miq.) Rehder	1727 Silica	Strijk 1727 (BGT), Borneo (2014)	Borneo 42 BOR	#####
<i>Lithocarpus edulis</i> (Makino) Nakai	3140 Herbarium	Fujii 8676 (L), Tsushima, Japan (2001)	C. & S. Japan to Nansei-shoto 38 JAP NNS	#####
<i>Lithocarpus edulis</i> (Makino) Nakai	1943 Silica	Tagane S. 111 (KAG), Mt. Boroishi, Japan	C. & S. Japan to Nansei-shoto 38 JAP NNS	#####
<i>Lithocarpus elephantum</i> (Hance) A. Camus	1961 Silica	Toyama et al. 654 (KYO), Central Cardamon, Cambodia	Indo-China 41 CBD THA VIE	#####
<i>Lithocarpus ewyckii</i> (Korth.) Rehder	984 Silica	Strijk 984 (BGT), Bukit Timah, Singapore (2012)	Malaya, Sumatra, Borneo 42 BOR MLY SUM	#####
<i>Lithocarpus formosanus</i> (Skan) Hayata	3261 Herbarium	Liao 992 (L), Mt. Hiiran, Taiwan (1967)	Taiwan 38 TAI	#####
<i>Lithocarpus formosanus</i> (Skan) Hayata	3262 Herbarium	Bogle et al s.n. (L), Nan-rin-shan, Taiwan (1962)	Taiwan 38 TAI	#####
<i>Lithocarpus gracilis</i> (Korth.) Soepadmo	987 Silica	Strijk 987 (BGT), Bukit Timah, Singapore (2012)	Pen. Thailand to W. Malesia 42 BOR MLY SUM	#####
<i>Lithocarpus imperialis</i> (Seemen) Markgr.	3345 Herbarium	Frodin & Hay 6594 (L), Central Province, New Guinea (1978)	New Guinea 43 NWG	#####
<i>Lithocarpus indutus</i> (Blume.) Rehder	2661 Herbarium	Yahara et al. G48 (KYO), Gede, Java, Indonesia	Jawa, C. Sulawesi 42 JAW SUL	#####
<i>Lithocarpus indutus</i> (Blume.) Rehder	2666 Silica	Yahara et al. IJ963 (KYO) Gede, Java, Indonesia	Jawa, C. Sulawesi 42 JAW SUL	#####

<i>Lithocarpus kawakamii</i> (Hayata) Hayata	3461 Silica	Strijk 3461 (BGT), Arboretum de Passadou, France (2016)	Taiwan 38 TAI	#####
<i>Lithocarpus lauterbachii</i> (Seemen) Markgr.	3053 Herbarium	Allison s.n. (L), Morobe, Papua New Guinea (1998)	New Guinea 43 NWG	#####
<i>Lithocarpus lucidus</i> (Roxb.) Rehder	986 Silica	Strijk 986 (BGT), Bukit Timah, Singapore (2012)	SE. Thailand to W. Malesia 41 THA 42 BOR MLY SUM	#####
<i>Lithocarpus luzoniensis</i> (Merr.) Rehder	3346 Herbarium	Jacobs s.n. (L), Luzon, Philippines (1968)	Philippines (Luzon) 42 PHI	#####
<i>Lithocarpus megacarpus</i> Soepadmo	3298 Herbarium	Womersley NGF19331 (L), Morobe, Papua New Guinea (1964)	New Guinea 43 NWG	#####
<i>Lithocarpus menadoensis</i> (Koord.) Soepadmo	3355 Herbarium	Brickpracht s.n. (L), Celebes. Indonesia (1931)	Sulawesi 42 SUL	#####
<i>Lithocarpus mindanaensis</i> (Elmer) Rehder	3300 Herbarium	Britton 423 (L), Bukidnon, Philippines (1952)	Philippines (Mindanao, Leyte) 42 PHI	#####
<i>Lithocarpus orbicarpus</i> Strijk	1234 Silica	Chamchunroon 5823 (BKF), Phang Nga, Thailand (2013)	Thailand 41 THA	#####
<i>Lithocarpus philippinensis</i> (A.DC.) Rehder	3062 Herbarium	Soejarto et al 8072 (L), Leyte, Philippines (1993)	Philippines 42 PHI	#####
<i>Lithocarpus philippinensis</i> (A.DC.) Rehder	3155 Herbarium	Co 3789 (L), Luzon, Philippines (1993)	Philippines 42 PHI	#####
<i>Lithocarpus pierrei</i> (Hickel & A. Camus) A. Camus	1958 Silica	Tagane et al. 5514 (KYO), Mt. Bokor, Cambodia	Indo-China 41 CBD THA VIE	#####
<i>Lithocarpus pseudomoluccus</i> (Blume) Rehder	2663 Silica	Yahara et al. IJ881 (KYO), Gede, Java, Indonesia	Sumatra to Jawa 42 JAW SUM	#####
<i>Lithocarpus pseudomoluccus</i> (Blume) Rehder	2664 Silica	Yahara et al. IJ446 (KYO), Gede, Java, Indonesia	Sumatra to Jawa 42 JAW SUM	#####
<i>Lithocarpus rassa</i> (Miq.) Rehder	993 Silica	Sirimongkol 370 (BKF), Phetchabun, Thailand (2012)	Pen. Thailand to W. Malesia 41 THA 42 BOR MLY SUM	#####
<i>Lithocarpus rassa</i> (Miq.) Rehder	1133 Silica	Strijk 1133 (BKF), Chon Buri, Thailand (2013)	Pen. Thailand to W. Malesia 41 THA 42 BOR MLY SUM	#####
<i>Lithocarpus recurvatus</i> Barnett	939 Silica	Sirimongkol 430 (BKF), Khamphaengphet, Thailand (2012)	Indo-China 41 LAO THA VIE	#####
<i>Lithocarpus recurvatus</i> Barnett	971 Silica	Sirimongkol 462 (BKF), Nakhon Nayok, Thailand (2012)	Indo-China 41 LAO THA VIE	#####
<i>Lithocarpus ruminatus</i> Soepadmo	1732 Silica	Strijk 1732 (BGT), Sabah, Borneo (2014)	Borneo (Sabah) 42 BOR	#####
<i>Lithocarpus sogerensis</i> (S. Moore) Markgr. Ex A. Camus	3366 Herbarium	Sayers NGF21578 (L), Morobe, Papua New Guinea (1965)	NE. New Guinea 43 NWG	#####
<i>Lithocarpus solerianus</i> (Vidal) Rehder	3350 Herbarium	Lagrimas & Mabean 40617 (L), Philippines (1960)	Philippines 42 PHI	#####
<i>Lithocarpus sootepensis</i> (Craib) A. Camus	1041 Silica	Chamchunroon 5458 (BKF), Chiang Mai, Thailand (2012)	N. Thailand, Pen. Malaysia (Kedah) 41 THA 42 MLY	#####
<i>Lithocarpus sootepensis</i> (Craib) A. Camus	1044 Silica	Chamchunroon 5461, (BKF) Chiang Mai, Thailand (2012)	N. Thailand, Pen. Malaysia (Kedah) 41 THA 42 MLY	#####
<i>Lithocarpus sootepensis</i> (Craib) A. Camus	1034 Silica	Chamchunroon 5451, (BKF) Chiang Mai, Thailand (2012)	N. Thailand, Pen. Malaysia (Kedah) 41 THA 42 MLY	#####
<i>Lithocarpus sulitii</i> Soepadmo	3333 Herbarium	Pancho 2184 (L), Laguna, Philippines (1962)	Philippines (Luzon, Mindanao) 42 PHI	#####
<i>Lithocarpus thomsonii</i> (Miq.) Rehder	760 Silica	Strijk 760 (BGT), Queen Sirikit Botanical Garden, Thailand (2011)	Assam to SC. China and Indo-China 36 CHC CHT 40 ASS BAN 41 LAO MYA THA VIE	#####
<i>Lithocarpus thomsonii</i> (Miq.) Rehder	763 Silica	Strijk 763 (BGT), Queen Sirikit Botanical Garden, Thailand (2011)	Assam to SC. China and Indo-China 36 CHC CHT 40 ASS BAN 41 LAO MYA THA VIE	#####

<i>Lithocarpus truncatus</i> (King ex Hook.f.) Rehder	904 Silica	Sirimongkol 395 (BKF), Phetchabun, Thailand (2012)	Assam to SC. China and Indo-China 36 CHC 40 ASS BAN 41 LAO MYA THA VIE	#####
<i>Lithocarpus truncatus</i> (King ex Hook.f.) Rehder	924 Silica	Sirimongkol 415 (BKF), Chaiyaphum, Thailand (2012)	Assam to SC. China and Indo-China 36 CHC 40 ASS BAN 41 LAO MYA THA VIE	#####
<i>Lithocarpus vestitus</i> (Hickel & A. Camus) A. Camus	888 Silica	Sirimongkol 379 (BKF), Phetchabun, Thailand (2012)	China (Yunnan) to Indo-China 36 CHC 41 CBD LAO THA VIE	#####
<i>Lithocarpus vestitus</i> (Hickel & A. Camus) A. Camus	952 Silica	Sirimongkol 443 (BKF), Khamphaengphet, Thailand (2012)	China (Yunnan) to Indo-China 36 CHC 41 CBD LAO THA VIE	#####
<i>Lithocarpus woodii</i> (Hance) A. Camus	3364 Herbarium	Kellman ANU1732, (L), Mindanao, Philippines (1965)	Philippines 42 PHI	#####
<i>Lithocarpus woodii</i> (Hance) A. Camus	3365 Herbarium	Elmer 10511 (L), Mindanao, Philippines (1909)	Philippines 42 PHI	#####
Outgroups				
<i>Quercus annulata</i> Sm.	Silica	Tagane et al. V4730 (KYO), Vietnam	Himalaya to N. Vietnam 36 CHC CHT 40 ASS EHM NEP WHM 41 MYA VIE	LC318796 (rbcL) LC318516(matK) MF770291(IT S)
<i>Quercus auricoma</i> A. Camus	Silica	Ngoc et al. V3135 (KYO), Vietnam	Vietnam 41 VIE	LC318778 (rbcL) LC318498(matK) MF770277(IT S)
<i>Quercus austrocochinchinensis</i> Hickel & A. Camus	Silica	Ngoc et al. V3129 (KYO), Vietnam	China (Guangxi, Yunnan) to Indo-China 36 CHC CHS 41 LAO THA VIE	LC318777(rbcL) LC318497(matK) MF770276(IT S)
<i>Q. bambusifolia</i> Hance	Silica	Ngoc et al. V3788 (KYO), Vietnam	China (Guangdong, Guangxi) to N. Vietnam 36 CHH CHS 41 VIE	LC318789(rbcL) LC318509(matK) MF770284(IT S)
<i>Quercus macrocalyx</i> Hickel & A. Camus	Silica	Tagane et al. V6457 (KYO), Vietnam	S. China to Indo-China 36 CHC CHH CHS CHT 41 LAO VIE	LC318800(rbcL) LC318520(matK) MF770294(IT S)
<i>Quercus kerri</i> Craib	Silica	Tagane et al. V6765 (KYO), Vietnam	SE. Bangladesh to Hainan 36 CHC CHH 40 BAN 41 LAO MYA THA VIE	LC318801(rbcL) LC318521 (matK) MF770295(IT S)
<i>Quercus</i> sp.	Silica	Hoang et al. V5101 (DLU, FU), Vietnam	Hainan to W. Malesia 36 CHH 40 ASS BAN 41 LAO MYA THA VIE 42 BOR JAW MLY SUM	#####
<i>Quercus poilanei</i> Hickel & A. Camus	Silica	Yahara et al. V2986 (KYO), Vietnam	China (Guangxi) to N. Indo-China 36 CHS 41 THA VIE	LC318774(rbcL) LC318494 (matK) MF770273(IT S)