

**Supplementary material**

Appendix S1. *Lithocarpus litseifolius* populations sampled for simple sequence repeat analysis.

<b>Population</b>	<b>ID</b>	<b>Sample Size</b>	<b>Locality</b>	<b>Elevation (m)</b>
<b>Bama, Guangxi</b>	BM	30	107°15'0.00" E 24° 08'60.00" N	500
<b>Debao-Napo, Guangxi</b>	DB	29	106°38'14.9"E 23°14'45.4" N	620
<b>Tianlin, Guangxi</b>	TL	14	106°12'57.6" E 24°16'14.4" N	750
<b>Fengshuling-Feitou, Jiangxi</b>	FSL	20	117°27'36.56" E 28°37'52.59" N	110-212
<b>Paijukou, Zhejiang</b>	PJK	32	119°18'9.92" E 28°20'35.83" N	306-435
<b>Baishui-Kengdi, Zhejiang</b>	BS	15	118°54'26.87" E 27°55'45.80" N	464-577
<b>Wuyishan, Fujian</b>	FJ	17	118°04'55.37" E 27°47'22.31" N	143-430
<b>Bawan, Hunan</b>	HN	31	110°24'47.20" E 27°35'37.23" N	345-490
<b>Eastern Chongqing</b>	H	10	109°16'31.40" E 31°15'1.32" N	1500
<b>Liangping, Chongqing</b>	L	27	107°34'45.50" E 30°49'6.58" N	480
<b>Beibei, Chongqing</b>	S	17	106°22'14.62" E 29°49'59.38" N	500

Appendix S2. Primer information for the ten microsatellite loci used in this study.

Locus	Repeats	Primers	Na	Label	Ta	Reference
<b>C1</b> <b>(quru-GA-0C11)</b>	(GA) <sub>15</sub>	F:ATACCCAGCTCCCATGACCA R:TCCCCAAATTCAGGTAGTGT	3	FAM	53	Aldrich et al. 2002
<b>C5</b> <b>(quru-GA-1C08)</b>	(GA) <sub>29</sub>	F:TCCCAATCGATGTTTGATAAGG R:GGGCTCTTGAGAGGATGTAGG	22	Hex	54	Aldrich et al. 2002
<b>C6</b> <b>(quru-GA-1F02)</b>	(GA) <sub>15</sub>	F:CCAATCCACCCTTCCAAGTTCC R:TGGTTGTTTTGCTTTATTTCAGCC	14	Rox	56	Aldrich et al. 2002
<b>C7</b> <b>(quru-GA-1G13)</b>	(GA) <sub>14</sub>	F:AAAACCTCACACAGCCGATTACTA R:GATTCCATTGTCAACTGCGAAGA	10	FAM	54	Aldrich et al. 2002
<b>C12</b> <b>(quru-GA-1F07)</b>	(GA) <sub>22</sub>	F:CCGGTCAAAGAAGTTATC R:GGGTGGATTGGGTTTCTACCTA	14	Hex	54	Aldrich et al. 2002
<b>C14</b> <b>(quru-GA-2M04)</b>	(GA) <sub>20</sub>	F:GGAGAGGACGGGATGCC R:TACTATGTCAGCCGGATG	5	Hex	54	Aldrich et al. 2002
<b>B5(Ld5)</b>	(GTT) <sub>6</sub> A(GTT)	F:TGCTCCGAACCCATGTA R:GAAATCGTTTCTTTGGGGTGTG	9	FAM	56	Morris and Dodd 2006
<b>B7(Ld7)</b>	(CT) <sub>9</sub>	F:ACCACACGAATGCAGCACAATCAC R:GAATACCTCCTGTCCCACGTGAC	32	FAM	55	Morris and Dodd 2006
<b>B10(Ld10)</b>	C(T) <sub>4</sub> C(T) <sub>5</sub> C(T) <sub>5</sub> C(T) <sub>3</sub>	F:GAGACAAGAATGAGCATCTC R:GTGATTGCATGTCTAGCTG	22	FAM	55	Morris and Dodd 2006
<b>B15(Ld15)</b>	(GA) <sub>5</sub> C(GA) <sub>6</sub> (A(GA) <sub>3</sub> ) <sub>3</sub> A(GA) <sub>2</sub> AA(GA) <sub>14</sub>	F:GCAGCACACAATGCAATTTC R:GTTCCATCAACTATTGACTCTG	39	Hex	54	Morris and Dodd 2006

Na: number of alleles;

Ta: annealing temperature

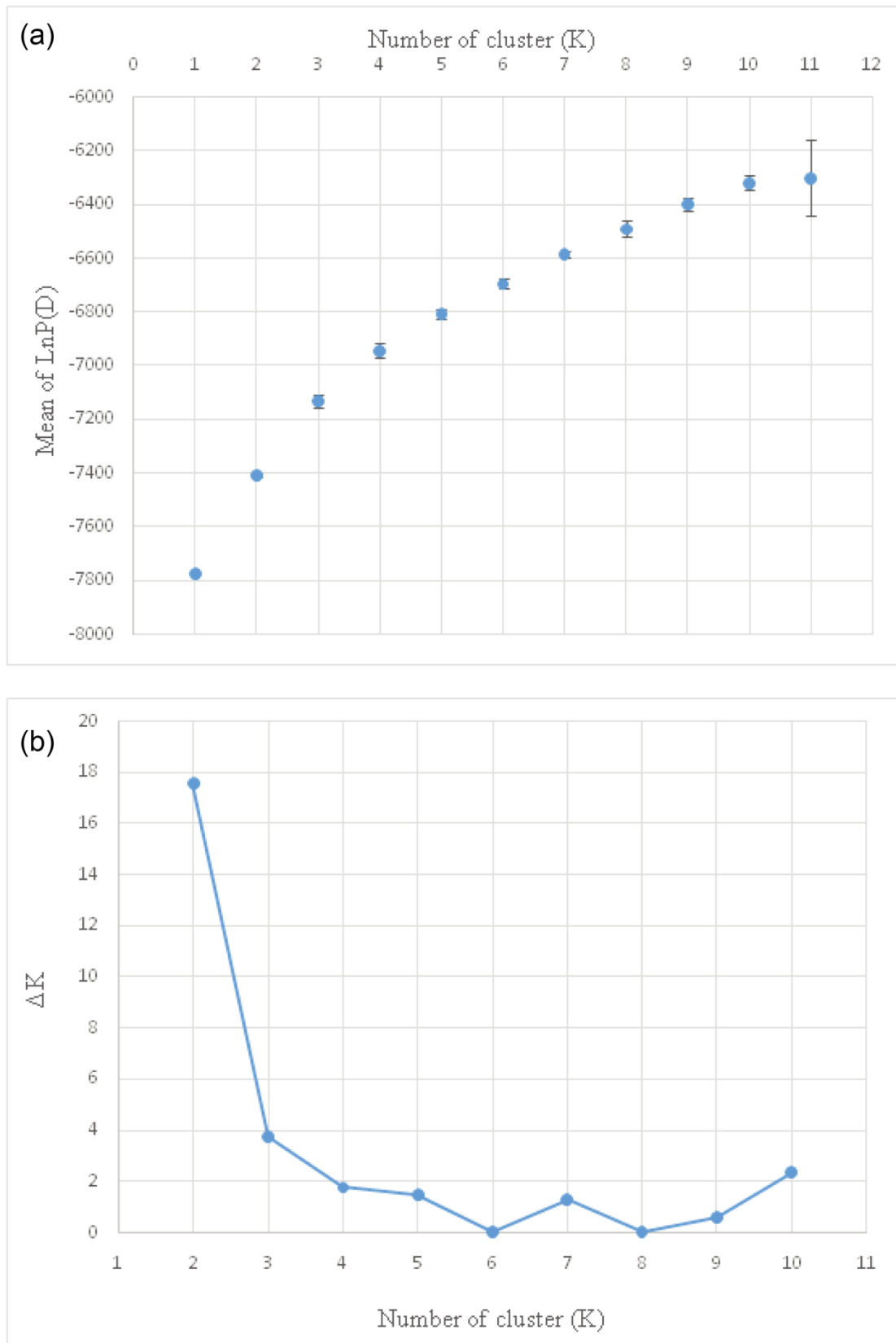


Figure 3. Graph of  $\text{Ln} P(D) \pm \text{SD}$  and line chart of delta K ( $\Delta K$ ) values. The mean  $\text{Ln} P(D)$  was determined using 20 repetitions for each  $K$  value.

	BM	DB-NP	TL	FSL+FS	PJK	BS+KD	HN	FJ	P+H	L
DB-NP	137.6002									
TL	105.7217	109.9708								
FSL+FS	1122.246	1254.075	1211.207							
PJK	1288.469	1418.225	1379.863	176.1721						
BS+KD	1270.172	1398.142	1363.523	181.0525	52.99937					
HN	482.7019	618.407	539.6762	734.103	910.1377	906.7665				
FJ	1155.431	1284.509	1247.81	81.86802	134.6738	117.7306	789.5033			
P+H	724.0568	842.0541	740.0769	873.7591	1041.437	1054.663	336.1406	947.0369		
L	742.2434	847.5641	740.3636	998.7399	1165.971	1179.602	423.9002	1072.112	125.0752	
S	637.9377	728.3209	618.7107	1094.403	1266.785	1275.041	431.9945	1162.878	248.5549	159.5597

		Distance
BM	DB-NP	137.6002
BM	TL	105.7217
BM	FSL+FS	1122.246
BM	PJK	1288.469
BM	BS+KD	1270.172
BM	HN	482.7019
BM	FJ	1155.431
BM	P+H	724.0568
BM	L	742.2434
BM	S	637.9377
DB-NP	TL	109.9708
DB-NP	FSL+FS	1254.075

DB-NP	PJK	1418.225
DB-NP	BS+KD	1398.142
DB-NP	HN	618.407
DB-NP	FJ	1284.509
DB-NP	P+H	842.0541
DB-NP	L	847.5641
DB-NP	S	728.3209
TL	FSL+FS	1211.207
TL	PJK	1379.863
TL	BS+KD	1363.523
TL	HN	539.6762
TL	FJ	1247.81
TL	P+H	740.0769
TL	L	740.3636
TL	S	618.7107
FSL+FS	PJK	176.1721
FSL+FS	BS+KD	181.0525
FSL+FS	HN	734.103
FSL+FS	FJ	81.86802
FSL+FS	P+H	873.7591
FSL+FS	L	998.7399
FSL+FS	S	1094.403
PJK	BS+KD	52.99937
PJK	HN	910.1377
PJK	FJ	134.6738

PJK	P+H	1041.437
PJK	L	1165.971
PJK	S	1266.785
BS+KD	HN	906.7665
BS+KD	FJ	117.7306
BS+KD	P+H	1054.663
BS+KD	L	1179.602
BS+KD	S	1275.041
HN	FJ	789.5033
HN	P+H	336.1406
HN	L	423.9002
HN	S	431.9945
FJ	P+H	947.0369
FJ	L	1072.112
FJ	S	1162.878
P+H	L	125.0752
P+H	S	248.5549
L	S	159.5597