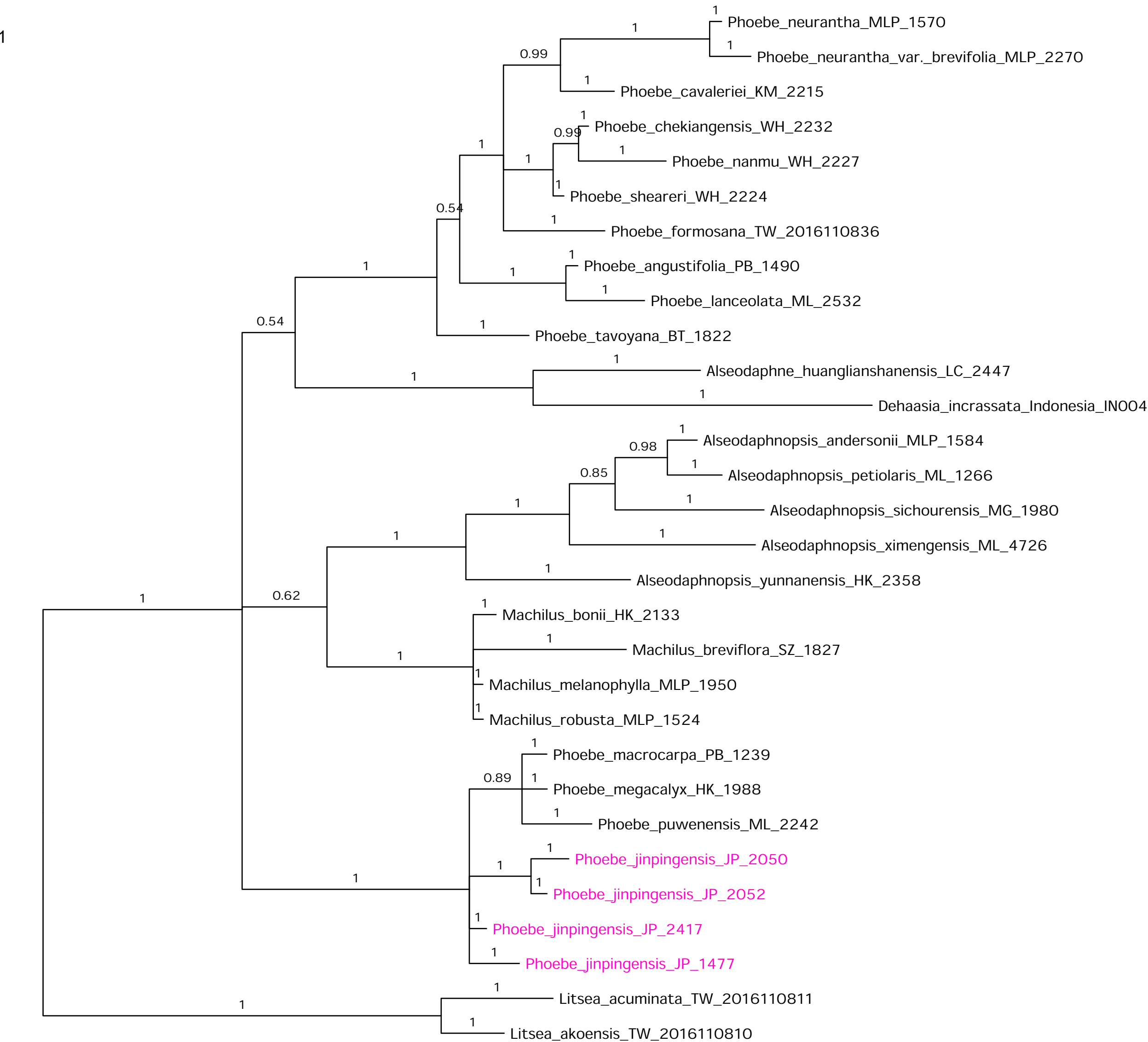


Supplementary Materials

Figures

Fig. 1-8. Phylogenetic trees. 1-6, BI and ML trees of Asian species of the *Persea* group using single markers. **1**, BI tree using nrITS; **2**, ML tree using nrITS; **3**, BI tree using *LEAFY*; **4**, ML tree using *LEAFY*; **5**, BI tree using plastid *matK*; **6**, ML tree using plastid *matK*. **7-8**, BI and ML trees of the *Persea* group using concatenated sequences of nrITS, *LEAFY* and *matK*. **7**, BI tree; **8**, ML tree.

Fig. 1



0.009

Fig. 2

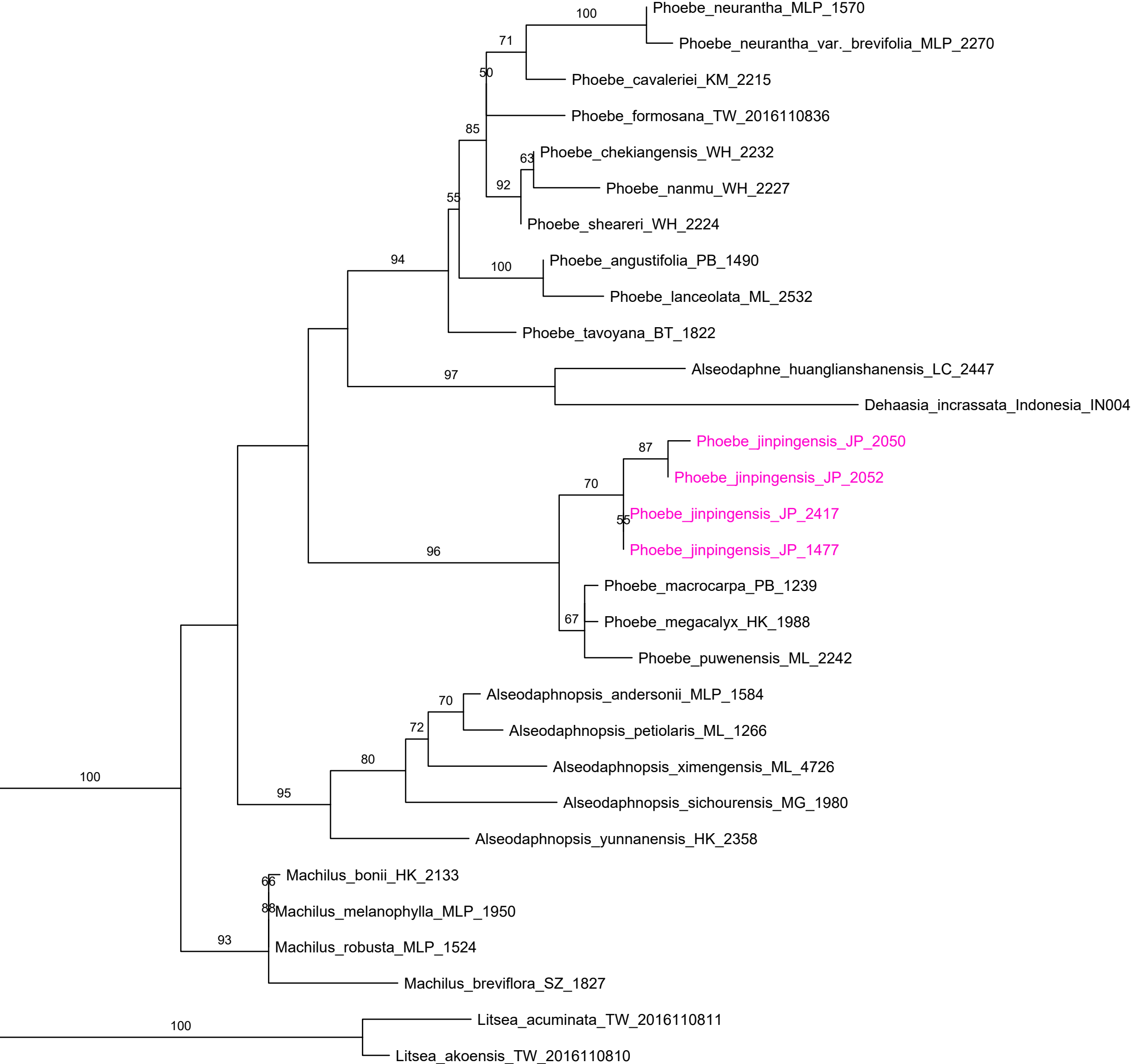


Fig. 3

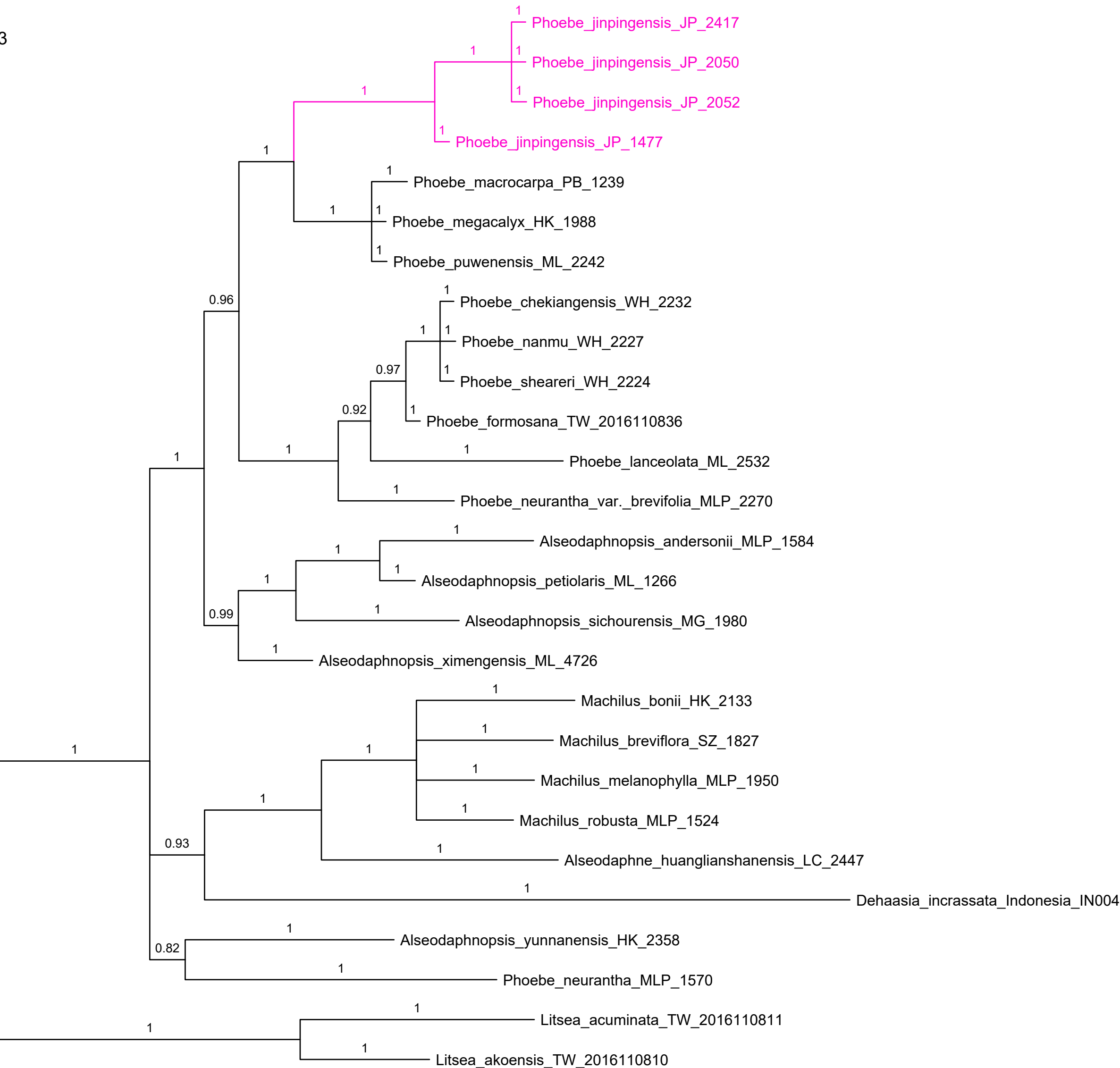
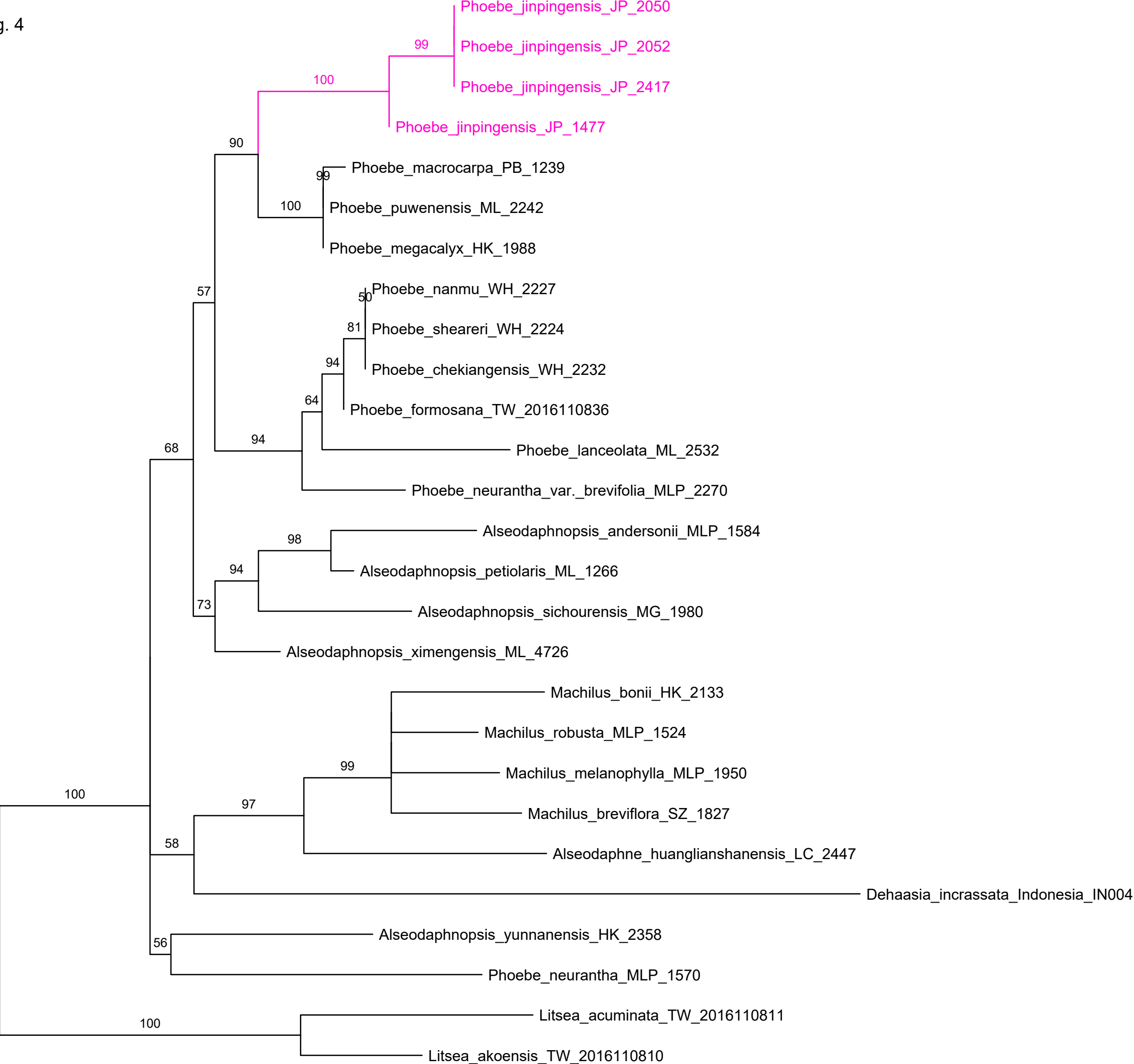
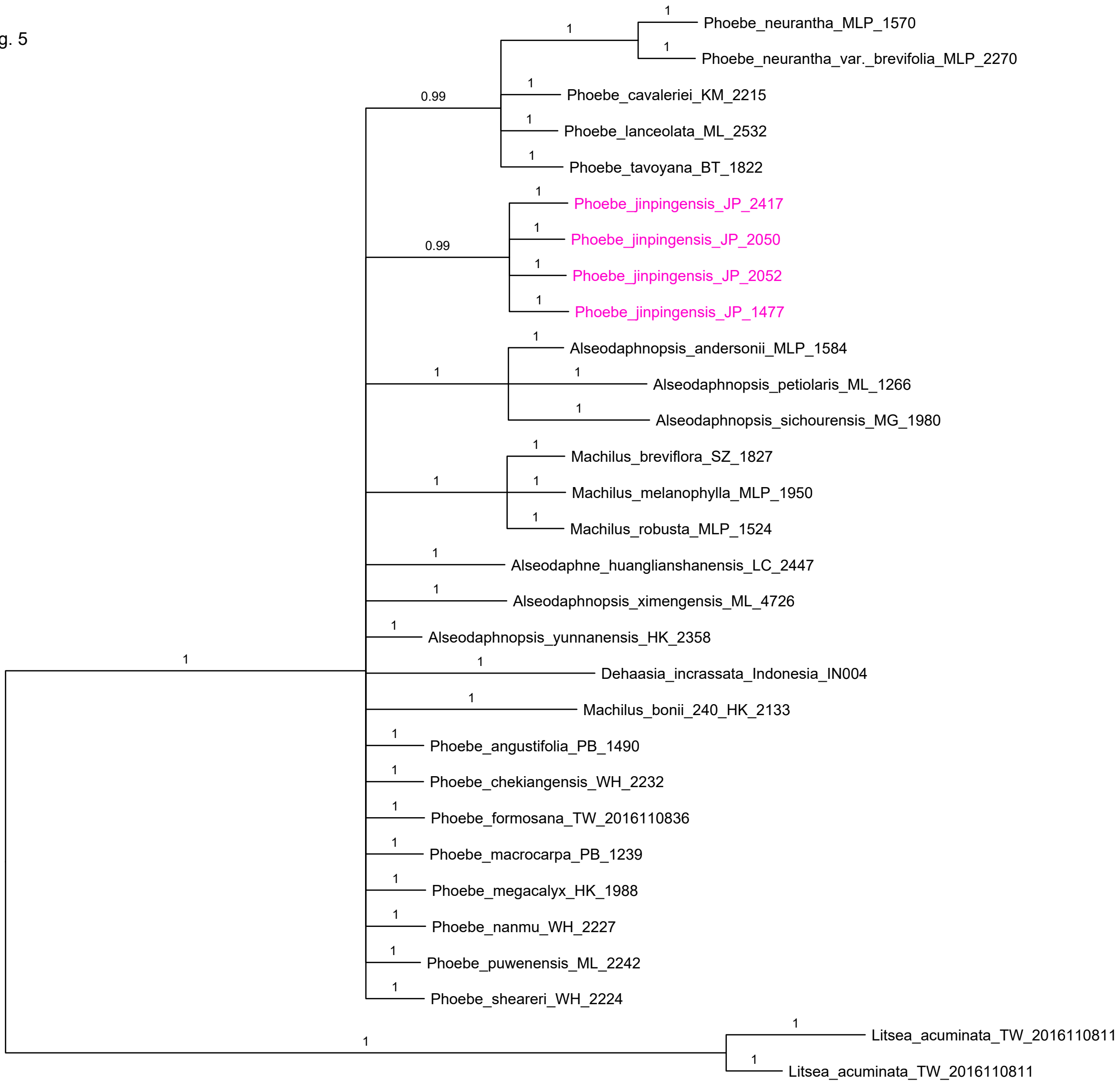


Fig. 4



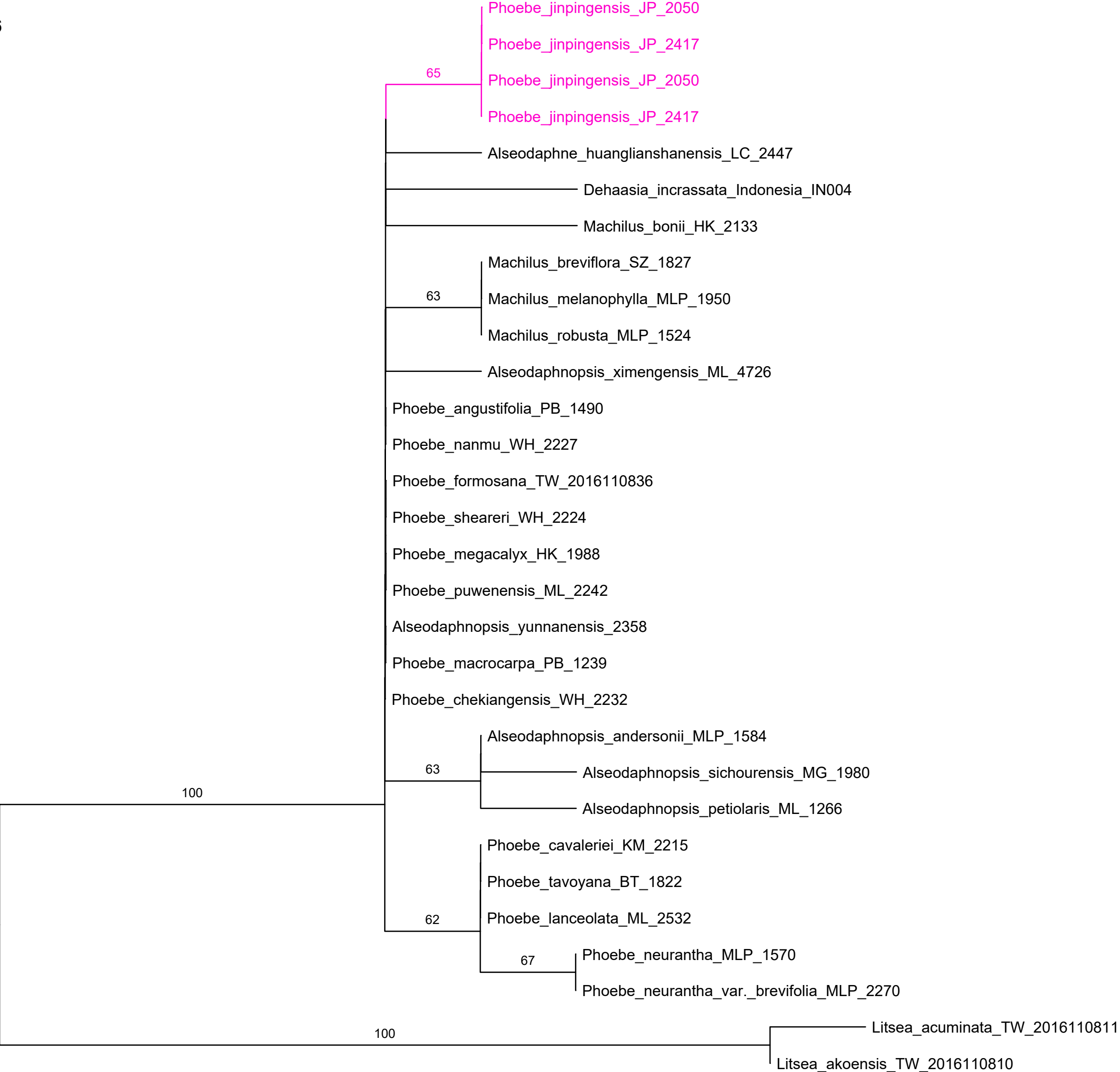
0.006

Fig. 5



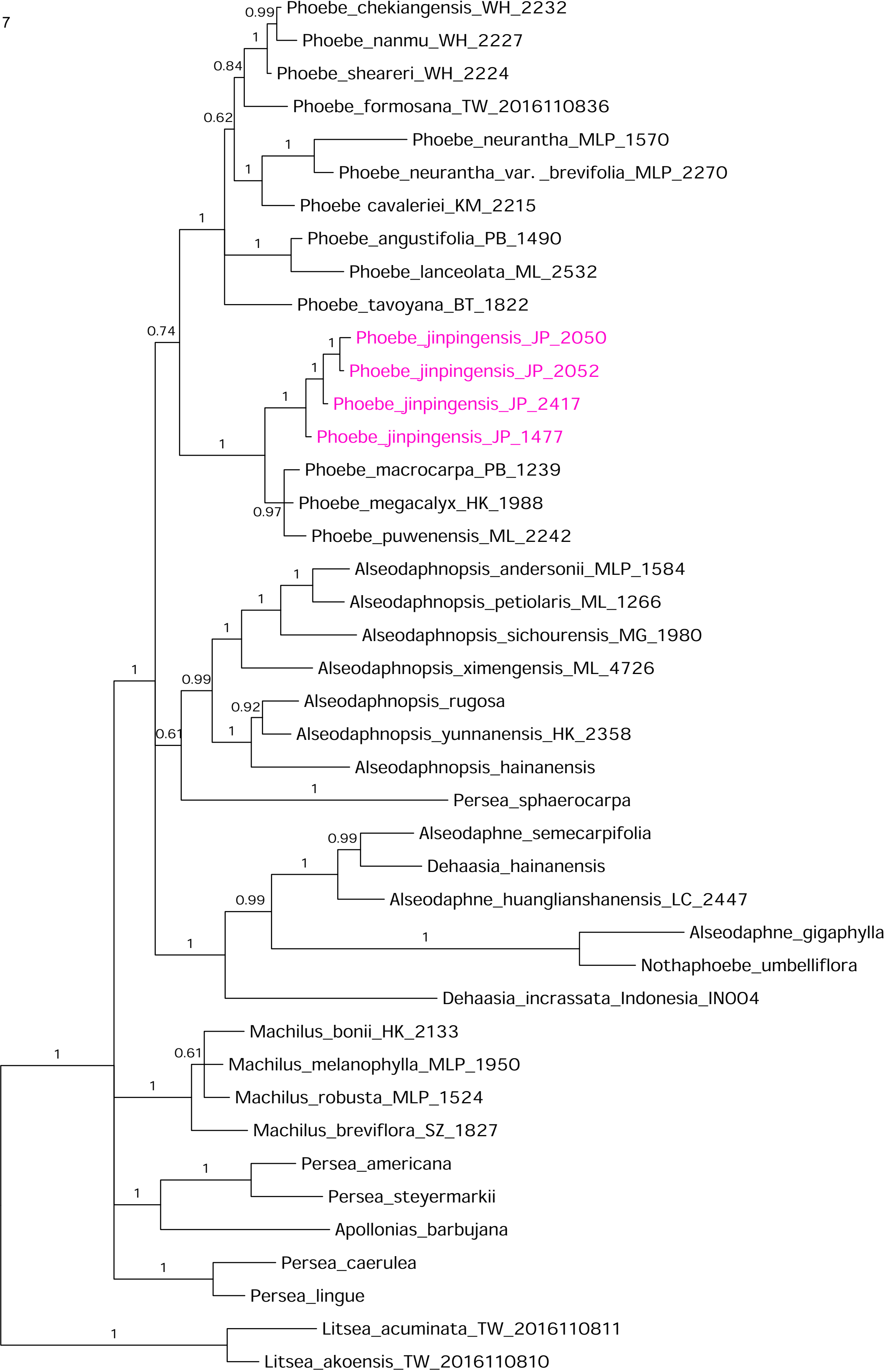
5.0E-4

Fig. 6



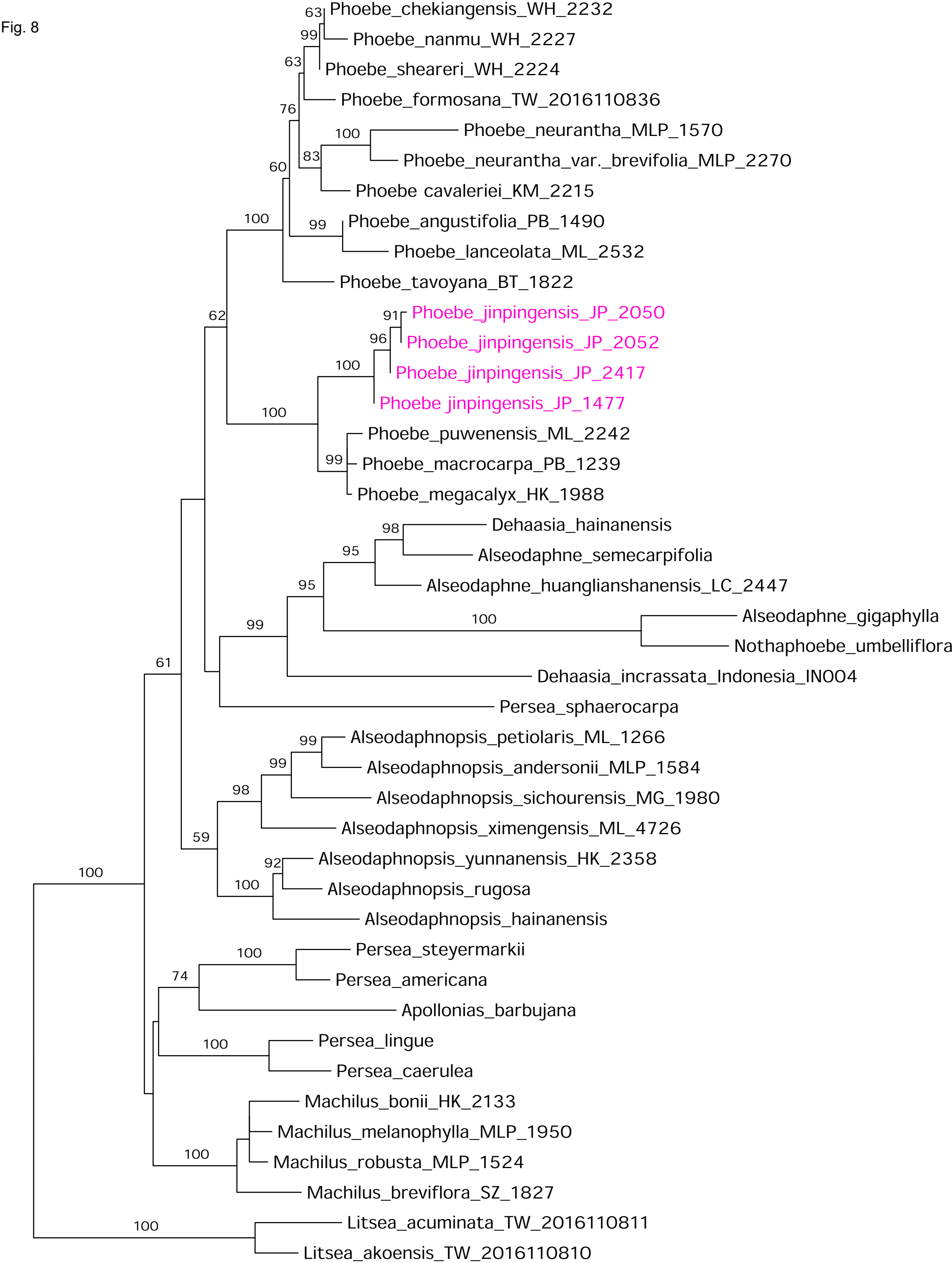
0.002

Fig. 7



0.008

Fig. 8



0.007

Supplementary Materials

Tables

Table SM-2. Substitution models of nrITS, *LEAFY* and *matK* for phylogeny using separate markers (Supplementary Materials. 1-6).

Analysis	nrITS	<i>LEAFY</i>	<i>matK</i>
BI	HKY+F+G4	HKY+F+G4	HKY+F
ML	HKY+F+G4	HKY+F+G4	HKY+F

Table SM-1. Sequences obtained from NCBI for phylogeny of the *Persea* group (Supplementary Materials: 7 & 8).

Taxon	nrITS	<i>LEAFY</i>	<i>matK</i>
<i>Alseodaphnopsis hainanensis</i> (Merr.) H.W.Li et J.Li	FJ755440	HQ697005	-
<i>Alseodaphnopsis rugosa</i> (Merr. et Chun) H.W.Li et J.Li	HQ697183	HQ697011	-
<i>Alseodaphne semecarpifolia</i> Nees	HQ697184	HQ697014	-
<i>Apollonias barbuja</i> (Cav.) Bornm.	AY934889	HQ697021	-
<i>Dehaasia hainanensis</i> Kosterm.	FJ719308	HQ697026	-
<i>Nothaphoebe gigaphylla</i> (Kosterm.) Kosterm.	HQ697181	HQ697003	-
<i>Nothaphoebe umbelliflora</i> (Blume) Blume	HQ697191	HQ697088	-
<i>Persea americana</i> Mill.	AF272322	HQ697091	AJ247179
<i>Persea caerulea</i> (Ruiz et Pav.) Mez	FJ755436	HQ697099	EU153875
<i>Persea lingue</i> (Miers ex Bertero) Nees	HQ697196	HQ697102	JF966445
<i>Persea sphaerocarpa</i> (H.J.P.Winkl.) Kosterm.	FM957837	HQ697118	-
<i>Persea steyermarkii</i> C.K.Allen	HQ697200	HQ697120	JF966439

Table SM-3. A tabulated comparison of fruit size of *Phoebe* from China.

Species	Fruit length (mm)	Fruit diam. (mm)
<i>Phoebe angustifolia</i> Meisn.	9-12(14)	5-7
<i>Phoebe bournei</i> (Hemsl.) Yang	11-15	6-7
<i>Phoebe brachythyrso</i> H.W.Li	11	7
<i>Phoebe calcarea</i> S.K.Lee et F.N.Wei	8-10	5-6
<i>Phoebe cavaleriei</i> (H.L.év.) Y.Yang et Bing Liu	12-14	12-14
<i>Phoebe chekiangensis</i> C.B.Shang	12-15	-
<i>Phoebe chinensis</i> Chun	10	10
<i>Phoebe crassipedicella</i> S.K.Lee et F.N.Wei	10	8
<i>Phoebe faberi</i> (Hemsl.) Chun	7-9	7-9
<i>Phoebe formosana</i> (Hayata) Hayata	8-9	-
<i>Phoebe forrestii</i> W.W.Smith	13	10
<i>Phoebe glaucifolia</i> S.K.Lee et F.N.Wei	10	5
<i>Phoebe glaucophylla</i> H.W.Li	18	10
<i>Phoebe hainanensis</i> Merr.	16-18	8
<i>Phoebe hui</i> Cheng ex Yang	12-14	6-9

<i>Phoebe hunanensis</i> Hand.-Mazz.	10-12	7
<i>Phoebe hungmoensis</i> S.K.Lee	10	5-6
<i>Phoebe kwangsiensis</i> H.Liu	-	-
<i>Phoebe lanceolata</i> (Wall. ex Nees) Nees	9-12	6-7
<i>Phoebe legendrei</i> Lec.	7-9	-
<i>Phoebe lichuanensis</i> S.K.Lee	-	-
<i>Phoebe macrocarpa</i> C.Y.Wu	38(42)	19-22
<i>Phoebe megacalyx</i> H.W.Li	32	18
<i>Phoebe microphylla</i> H.W.Li	4-5	1.8
<i>Phoebe minutiflora</i> H.W.Li	8	8
<i>Phoebe motuonan</i> S.Lee et F.N.Wei	20-22	15-16
<i>Phoebe neurantha</i> (Hemsl.) Gamble	10	7
<i>Phoebe neuranthoides</i> S.K.Lee et F.N.Wei	10-12	5-8
<i>Phoebe nigrifolia</i> S.K.Lee et F.N.Wei	10	8
<i>Phoebe puwenensis</i> W.C.Cheng	13	7
<i>Phoebe rufescens</i> H.W.Li	20-32	11-20
<i>Phoebe sheareri</i> (Hemsl.) Gamble	10	5-6
<i>Phoebe tavoyana</i> (Meisn.) Hook.f.	12	-
<i>Phoebe yaiensis</i> S.K.Lee	11-13	5-7
<i>Phoebe yunnanensis</i> H.W.Li	20-22	13
<i>Phoebe zhennan</i> S.Lee et F.N.Wei	11-14	6-7

Note: data of fruit size were extracted from *Flora of China*.