

**Table S1.** Mitochondrial genomes used for the phylogenetic analyses in this study

Subfamily	Species	Length (bp)	A+T (%)	GenBank accession no.
Typhlocybae	<i>Paraahimia luodianensis</i>	15,382	79.1%	MN894531
	<i>Parazyginella tiani</i>	17,562	76.4%	MT683891
	<i>Paraahimia luodianensis</i>	16,497	80%	NC_047464
	<i>Eupteryx minusula</i>	16,944	78.8%	MN910279
	<i>Bolanusoides shaanxiensis</i>	15,274	78.9%	MN661136
	<i>Limassolla lingchuanensis</i>	15,716	78.8%	NC_046037
	<i>Mitjaevia protuberanta</i>	15,472	77.4%	NC_047465
	<i>Empoasca flavescens</i>	15,152	78.4%	MK211224
	<i>Ghauriana sinensis</i>	15,491	79.5%	MN699874
Ledrinae	<i>Tituria pyramidata</i>	15,331	75.6%	NC_046701
	<i>Tituria sagittata</i>	14,918	76.5%	NC_051528
	<i>Petalocephala chlorophana</i>	14,927	76.6%	MT610899
	<i>Ledra auditura</i>	16,094	76.3%	MK387845
Evacanthinae	<i>Evacanthus acuminatus</i>	14,793	78.8%	MK948205
Mileewinae	<i>Mileewa margheritae</i>	15,375	79%	MT483998
	<i>Mileewa ponta</i>	15,999	79.9%	MT497465
	<i>Mileewa albovittata</i>	15,079	79.6%	MK138358
	<i>Mileewa alara</i>	16,020	77.9%	MW533151
Cicadellinae	<i>Bothrogonia ferruginea</i>	15,262	76.4%	KU167550
	<i>Homalodisca vitripennis</i>	15,304	78.4%	NC_006899
	<i>Atkinsoniella grahami</i>	15,621	78.5%	MW533712
	<i>Atkinsoniella xanthonota</i>	15,895	78.5%	MW533713
	<i>Bothrogonia qiongana</i>	15,788	76.9%	NC_049894
	<i>Cofana yasumatsui</i>	16,011	77.6%	NC_044706
Megophthalminae	<i>Durgades nigropicta</i>	15,974	78.8%	NC_035684
	<i>Japanagallia spinosa</i>	15,655	76.6%	NC_035685
	<i>Japanagallia curvipenis</i>	15,356	76.3%	This Study
	<i>Japanagallia malaisei</i>	15,575	77.1%	This Study
	<i>Japanagallia multispina</i>	15,533	77.2%	This Study
	<i>Japanagallia turiformis</i>	15,717	76.1%	This Study
	<i>Japanagallia</i> sp.	15,396	77.7%	This Study
Treehopper	<i>Maurya qinlingensis</i>	16,011	78.1%	NC_044706
	<i>Entylia carinata</i>	15,662	78.1%	NC_033539
	<i>Tricentrus brunneus</i>	16,467	78.6%	NC_044708
	<i>Leptocentrus albolineatus</i>	15,508	78.1%	NC_044707
	<i>Hypsauchenia hardwickii</i>	15,618	78.8%	NC_044705
Idiocerinae	<i>Populicerus populi</i>	16,494	77.2%	MH492318
	<i>Liocratus salicis</i>	16,436	77.2%	MG813490
	<i>Idioscopus myrica</i>	15,423	77.8%	MH492317
	<i>Idioscopus clypealis</i>	15,393	78.3%	MF784430
	<i>Idiocerus laurifoliae</i>	16,811	79.5%	MH433622
	<i>Idioscopus nitidulus</i>	15,287	78.7%	NC_029203

	<i>Olidiana ritcheiina</i>	15,166	78%	MK738125
	<i>Taharana fasciana</i>	15,161	77.9%	KY886913
	<i>Olidiana alata</i>	15,205	78%	MN780581
	<i>Olidiana longsticka</i>	15,993	79.7%	MN780582
Coelidiinae	<i>Olidiana obliqua</i>	15,312	79.3%	MN780583
	<i>Olidiana ritcheri</i>	15,372	78.2%	MN780584
	<i>Cladolia biungulata</i>	15,247	78.2%	MW406474
	<i>Cladolia robusta</i>	15,376	78.4%	MW406475
	<i>Olidiana tongmaiensis</i>	15,363	78.1%	NC_057966
	<i>Batracomorphus lateprocessus</i>	15,356	80.5%	MG813489
	<i>Trocnadella arisana</i>	15,131	80.7%	NC_036480
Iassinae	<i>Iassus dorsalis</i>	15,176	80.1%	MN577634
	<i>Krisna rufimarginata</i>	14,724	81.1%	NC_046068
	<i>Gessius rufidorsus</i>	14,634	80.7%	MN577633
Macropsinae	<i>Macropsis notata</i>	16,323	76.8%	NC_042723
	<i>Oncopsis nigrofasciata</i>	15,927	79%	MG813492
	<i>Balala fujiana</i>	16,221	77.4%	NC_056921
	<i>Kalasha nativa</i>	15,716	74.4%	NC_056922
Hylicinae	<i>Nacolus tuberculatus</i>	15,737	77.1%	NC_056923
	<i>Hylica paradoxa</i>	14,762	75.8%	NC_056920
	<i>Drabescus ineffectus</i>	15,744	77.1%	NC_050258
	<i>Roxasellana stellata</i>	15,361	76%	NC_050257
	<i>Scaphoideus varius</i>	15,207	75.9%	KY817245
	<i>Paramacrosteles nigromaculatus</i>	15,011	76.3%	NC_045270
	<i>Abrus expansivus</i>	15,904	74.7%	NC_045238
	<i>Yanocephalus yanonis</i>	15,623	74.6%	NC_036131
	<i>Maieatas dorsalis</i>	15,352	78.7%	NC_036296
	<i>Macrosteles quadrilineatus</i>	16,626	78%	NC_034781
	<i>Alobaldia tobae</i>	16,026	77.8%	KY039116
	<i>Drabescoides nuchalis</i>	15,309	75.7%	NC_028154
	<i>Exitianus indicus</i>	16,089	75.1%	KY039128
	<i>Japananus hyalinus</i>	15,364	76.6%	NC_036298
Deltocephaline	<i>Orosius orientalis</i>	15,513	72%	KY039146
	<i>Scaphoideus nigrivalveus</i>	15,235	76.5%	KY817244
	<i>Pellucidus guizhouensis</i>	16,555	78%	MF784429
	<i>Hishimonoides recurvatis</i>	14,614	76.7%	KY364883
	<i>Scaphoideus maai</i>	15,188	77.2%	KY817243
	<i>Macrosteles quadrimaculatus</i>	15,734	77.7%	NC_039560
	<i>Nephotettix cincticeps</i>	14,805	77.7%	NC_026977
	<i>Deltocephalinae</i> sp.	14,573	74.1%	KX437726
	<i>Cicadula</i> sp.	14,929	74.6%	KX437724
	<i>Norvellina</i> sp.	15,594	74.1%	KY039131
	<i>Tambocerus</i> sp.	15,955	76.4%	KT827824
	<i>Balclutha</i> sp.	14,819	75.8%	KX437738

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outgroup	<i>Cervaphis quercus</i>	15,272	84.8%	NC_024926
	<i>Cacopsylla coccinea</i>	14,832	72.1%	NC_027087

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