

Table S2. Information of sequences used in phylogenetic study.

Subfamily	Species	Gene	GenBank accession number
Harpactorinae	<i>Sphedanolestes impressicollis</i>	COI	KC887536
		16S	KC887536
		Partial 18S	KC413925
Triatominae	<i>Triatoma rubrofasciata</i>	COI	MH934953
		16S	MH934953
		Partial 18S	AJ421960
Peiratinae	<i>Androclis borneensis</i>	COI*	ON351532
		16S*	ON355293
		Partial 18S*	ON355275
	<i>Androclis granulatus</i>	COI*	ON351533
		16S*	ON355294
		Partial 18S	MH925896
	<i>Brachysandalus lurco</i>	COI*	ON351534
		16S*	ON355295
		Partial 18S*	ON355276
	<i>Calistocoris caesareus</i>	COI*	ON351535
		16S*	ON355296
		Partial 18S*	ON355277
	<i>Catamiarus brevipennis</i>	COI*	ON351536
		16S*	ON355297
		Partial 18S	MH926009
	<i>Ectomocoris luridus</i>	COI*	OP446104
		16S*	OP445248
		Partial 18S*	OP445252
	<i>Ectomocoris quadriguttatus</i>	Partial COI*	OP446105
		16S*	OP445249
		Partial 18S*	OP445253
	<i>Ectomocoris quadrimaculatus</i>	COI*	OP446106
		16S*	OP445250
		Partial 18S*	OP445254
	<i>Ectomocoris xanthopus</i>	COI*	OP446107
		16S*	OP445251
		Partial 18S*	OP445255
	<i>Eidmannia matogrossensis</i>	COI*	ON351539
		16S*	ON355300
		Partial 18S	MH926007
	<i>Fusius dilutus</i>	COI*	ON351540
		16S*	ON355301
		Partial 18S*	ON355279
	<i>Fusius rubricosus</i>	COI*	ON351541
		16S*	ON355302
		Partial 18S	MH925984
	<i>Sigicoris brumalis</i> comb. nov.	COI*	ON351542
		16S*	ON355303
	<i>Sigicoris dominiqueae</i> sp. nov.	COI*	ON351543
		16S*	ON355304

	Partial 18S*	ON355280
<i>Sigicoris sexguttatus</i> comb. nov.	COI*	ON351544
	16S*	ON355305
	Partial 18S*	ON355281
<i>Lamotteus ornatus</i>	COI*	ON351545
	16S*	ON355306
	Partial 18S*	ON355282
<i>Lestomerus affinis</i>	COI*	ON351546
	16S*	ON355307
	Partial 18S	MH925977
<i>Lestomerus sanctus</i>	COI*	ON351547
	16S*	ON355308
	Partial 18S*	ON355283
<i>Melanolestes picipes</i>	COI*	ON351548
	16S*	ON355309
<i>Melanolestes</i> sp.	Partial 18S	KT231841
<i>Microsandalus umbrosus</i>	COI*	ON351549
	16S*	ON355310
	Partial 18S*	ON355284
<i>Neopirates nyassae</i>	COI*	ON351550
	16S*	ON355311
	Partial 18S*	ON355285
<i>Oblongiala zimbabwensis</i>	COI*	ON351551
	16S*	ON355312
	Partial 18S*	ON355286
<i>Pachysandalus collaris</i>	COI*	ON351552
	16S*	ON355313
	Partial 18S*	ON355287
<i>Parapirates cachani</i>	COI*	ON351553
	16S*	ON355314
	Partial 18S*	ON355288
<i>Peirates arcuatus</i>	COI	NC_024264
	16S	NC_024264
<i>Peirates atromaculatus</i>	COI	NC_026670
	16S	NC_026670
<i>Peirates fulvescens</i>	COI	NC_026669
	16S	NC_026669
<i>Peirates lepturoides</i>	COI	NC_026672
	16S	NC_026672
<i>Peirates turpis</i>	COI	NC_026671
	16S	NC_026671
	Partial 18S	KC413804
<i>Phalantus feanus</i>	COI*	ON351554
	16S*	ON355315
	Partial 18S*	ON355289
<i>Phalantus geniculatus</i>	COI	MF806068
	16S	MF806068
<i>Phorastes femoratus</i>	COI*	ON351555
	16S*	ON355316

<i>Pteromalestes nyassae</i>	Partial 18S*	ON355290
	COI*	ON351556
	16S*	ON355317
<i>Rasahus sulcicollis</i>	Partial 18S	MH926008
	COI*	ON351557
	16S*	ON355318
<i>Sirthena flavipes</i>	Partial 18S*	ON355291
	COI	NC_020143
	16S	NC_020143
<i>Thymbreus ocellatus</i>	Partial 18S	MH925974
	COI*	ON351558
	16S*	ON355319
<i>Tydides obscurus</i>	Partial 18S*	ON355292
	COI*	ON351559
	16S*	ON355320
<i>Zeraikia novafriburguensis</i>	COI*	ON351560
	16S*	ON355321

*: newly-sequenced in present study.