

**Table S1.** Summary of sample mixed pools and result of *Bartonella* detection

order	POOL NO.	HOST FAMILY	HOST SPECIES	NUM	LOCATION	DATE	PCR			
							<i>gltA</i>	<i>ftsZ</i>	<i>rpoB</i>	ITS
1	YNML1/BM01	<i>Spinturnicidae</i>	<i>Spinturnicidae</i> sp.	16	Mengla	2012				
2	YNML1/BM02	<i>Spinturnicidae</i>	<i>Spinturnicidae</i> sp.	17	Mengla	2012	+	+	+	+
3	YNML2/BM03	<i>Spinturnicidae</i>	<i>Spinturnicidae</i> sp.	30	Menglian	2012	+	+	+	+
4	YNML2/BM04	<i>Spinturnicidae</i>	<i>Spinturnicidae</i> sp.	25	Menglian	2012	+	+	+	-
5	YNMJ/BM05	<i>Spinturnicidae</i>	<i>Spinturnicidae</i> sp.	15	Mojiang	2013				
6	YNSB/BM06	<i>Spinturnicidae</i>	<i>Spinturnicidae</i> sp.	10	Shuangbai	2013	+	+	-	+
7	YNMS/BT01	<i>Ixodidae</i>	<i>Ixodes vespertilionis</i>	1	Mangshi	2012	+	+	+	+
8	YNMJ/BT02	<i>Ixodidae</i>	<i>Ixodes collaris</i>	2	Mojiang	2013				
9	YNTC/BT03	<i>Ixodidae</i>	<i>Ixodes collaris</i>	2	Tengchong	2012				
10	YNBS/BC01	<i>Ischnopsyllidae</i>	<i>Thaumapsylla</i> sp.	1	Baoshan	2014				
11	YNWD/BC02	<i>Ischnopsyllidae</i>	<i>Thaumapsylla</i> sp.	4	Wanding	2013	+	+	+	-
12	YNWD/BC03	<i>Ischnopsyllidae</i>	<i>Thaumapsylla</i> sp.	16	Wanding	2014	+	+	+	+
13	YNBS/BF01	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	19	Baoshan	2014				
14	YNBS/BF02	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	17	Baoshan	2014				
15	YNBS/BF03	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	13	Baoshan	2014	+	+	+	+
16	YNBS/BF04	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	10	Baoshan	2014	+	+	+	+
17	YNBS/BF05	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	6	Baoshan	2014				
18	YNBS/BF06	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	14	Baoshan	2014	+	+	+	+
19	YNBS/BF07	<i>Streblidae</i>	<i>Brachytarsina</i> sp.	1	Baoshan	2014				
20	YNMS/BF08	<i>Nycteribiidae</i>	<i>Nycteribiidae</i> sp.	9	Mangshi	2012				
21	YNMS/BF09	<i>Nycteribiidae</i>	<i>Nycteribiidae</i> sp.	5	Mangshi	2012				
22	YNMS/BF10	<i>Nycteribiidae</i>	<i>Nycteribiidae</i> sp.	5	Mangshi	2012				
23	YNML1/BF11	<i>Nycteribiidae</i>	<i>Eucampsipoda sundai</i>	19	Mengla	2012	+	+	+	+
24	YNML1/BF12	<i>Nycteribiidae</i>	<i>Eucampsipoda sundai</i>	24	Mengla	2012	+	+	+	+
25	YNML2/BF13	<i>Nycteribiidae</i>	<i>Phthiridium</i> sp.	4	Menglian	2014	+	+	+	+
26	YNMJ/BF14	<i>Streblidae</i>	<i>Brachytarsina kanoi</i>	8	Mojiang	2013				
27	YNMJ/BF15	<i>Nycteribiidae</i>	<i>Nycteribiidae</i> sp.	12	Mojiang	2013	+	+	+	+
28	YNMJ/BF16	<i>Nycteribiidae</i>	<i>Nycteribiidae</i> sp.	14	Mojiang	2013	+	+	-	+
29	YNTC/BF18	<i>Nycteribiidae</i>	<i>Phthiridium</i> sp.	5	Tengchong	2012				
30	YNTC/BF17	<i>Nycteribiidae</i>	<i>Nycteribia</i> sp.	10	Tengchong	2012	+	+	-	+
31	YNWD/BF19	<i>Nycteribiidae</i>	<i>Nycteribia</i> sp.	13	Wanding	2012				
32	YNWD/BF20	<i>Nycteribiidae</i>	<i>Eucampsipoda inermis</i>	8	Wanding	2013				
33	YNWD/BF21	<i>Streblidae</i>	<i>Brachytarsina</i> sp.	2	Wanding	2013				
34	YNWD/BF22	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	12	Wanding	2014				
35	YNWD/BF23	<i>Nycteribiidae</i>	<i>Eucampsipoda africana</i>	11	Wanding	2014	+	+	+	+
36	YNXY/BF24	<i>Nycteribiidae</i>	<i>Penicillidia monoceros</i>	8	Xiangyun	2013	+	+	+	+
37	YNXY/BF25	<i>Nycteribiidae</i>	<i>Nycteribia</i> sp.	8	Xiangyun	2014				
38	YNXY/BF26	<i>Nycteribiidae</i>	<i>Nycteribia</i> sp.	10	Xiangyun	2014				
39	YNXY/BF27	<i>Nycteribiidae</i>	<i>Nycteribia</i> sp.	18	Xiangyun	2014	+	+	+	+
40	YNYD/BF28	<i>Nycteribiidae</i>	<i>Phthiridium</i> sp.	10	Yongde	2014	+	+	+	+

Note: "+" indicated pools that positive to *Bartonella* detection, while "-" and cell blank indicated negative.

**Table S2.** GenBank accession and information of reference sequences for *gltA*

<b>gltA accession</b>	<b>Classification</b>	<b>Strain</b>	<b>Country</b>	<b>Host species</b>
MK140216	<i>Bartonella</i> sp.	110CJ1874312	Romania	<i>Miniopterus schreibersii</i>
KF003115	<i>Bartonella</i> sp.	1157-3	Finland	<i>Eptesicus nilssoni</i>
KF003122	<i>Bartonella</i> sp.	1160-1	Finland	<i>Myotis daubentonii</i>
KF003129	<i>Bartonella</i> sp.	2574-1	Finland	<i>Myotis daubentonii</i>
KY629840	<i>Bartonella</i> sp.	A14	Mexico	<i>Desmodus rotundus</i>
KY629868	<i>Bartonella</i> sp.	A3	Mexico	<i>Desmodus rotundus</i>
KY629834	<i>Bartonella</i> sp.	A5	Mexico	<i>Desmodus rotundus</i>
KP100341	<i>Bartonella</i> sp.	B005	Vietnam	<i>Megaderma spasma</i>
KP100348	<i>Bartonella</i> sp.	B056	Vietnam	<i>Rhinolophus acuminatus</i>
KP100360	<i>Bartonella</i> sp.	B110	Vietnam	<i>Hipposideros larvatus</i>
KM030506	<i>Bartonella</i> sp.	B23975	Kenya	<i>Eidolon helvum</i>
HM597187	<i>Bartonella</i> sp.	B29042	Guatemala	<i>Desmodus rotundus</i>
JQ071382	<i>Bartonella</i> sp.	B32954	Peru	<i>Artibeus planirostris</i>
KM030518	<i>Bartonella</i> sp.	B40005	Cameroon	<i>Eidolon helvum</i>
MK140370	<i>Bartonella</i> sp.	B44672	Georgia	<i>Myotis blythii</i>
LC483820	<i>Bartonella</i> sp.	bat2-1	Japan	<i>Miniopterus schreibersi fliginosus</i>
KJ530742	<i>Bartonella</i> sp.	Bc37076	Puerto Rico	<i>Brachyphylla cavernarum</i>
KX807178	<i>Bartonella</i> sp.	DMR02005	USA	<i>Myotis lucifugus</i>
KY629879	<i>Bartonella</i> sp.	DR13	Mexico	<i>Desmodus rotundus</i>
KY629857	<i>Bartonella</i> sp.	DR22	Mexico	<i>Desmodus rotundus</i>
MN270084	<i>Bartonella</i> sp.	E1 B23987	Kenya	<i>Eidolon helvum</i>
KM030503	<i>Bartonella</i> sp.	E2 B23979	Kenya	<i>Eidolon helvum</i>
KM030511	<i>Bartonella</i> sp.	E2 B24225	Kenya	<i>Eidolon helvum</i>
MN270085	<i>Bartonella</i> sp.	E2 B39294	Ghana	<i>Eidolon helvum</i>
KM030522	<i>Bartonella</i> sp.	E2 B40396	Tanzania	<i>Eidolon helvum</i>
MN270087	<i>Bartonella</i> sp.	E3 B39300	Ghana	<i>Eidolon helvum</i>
KM030516	<i>Bartonella</i> sp.	E4 B39301	Ghana	<i>Eidolon helvum</i>
KM030513	<i>Bartonella</i> sp.	E5 B39249	Ghana	<i>Eidolon helvum</i>
KM030520	<i>Bartonella</i> sp.	E5 B40014	Tanzania	<i>Eidolon helvum</i>
KM030526	<i>Bartonella</i> sp.	E5 B40908	Uganda	<i>Eidolon helvum</i>
KY629885	<i>Bartonella</i> sp.	F14	Mexico	<i>Pteronotus parnellii</i>
KY629884	<i>Bartonella</i> sp.	F2	Mexico	<i>Pteronotus parnellii</i>
HM545137	<i>Bartonella</i> sp.	H-556	Kenya	<i>Hipposideros vittatus</i>
KY629850	<i>Bartonella</i> sp.	J3	Mexico	<i>Sturnira lilium</i>
KP010193	<i>Bartonella</i> sp.	KEL17	Madagascar	<i>Eidolon dupreanum</i>
KY232214	<i>Bartonella</i> sp.	KP215	Thailand	<i>Hipposideros larvatus</i>
AJ871613	<i>Bartonella</i> sp.	M406	UK	<i>Myotis daubentonii</i>
KY629849	<i>Bartonella</i> sp.	M9	Mexico	<i>Desmodus rotundus</i>
KF418812	<i>Bartonella</i> sp.	Mi-BA38	Nigeria	<i>Micropteropus</i> sp.
KJ530743	<i>Bartonella</i> sp.	Mr37075	Puerto Rico	<i>Monophyllus redmani</i>
JF500511	<i>Bartonella</i> sp.	No.05	Taiwan	<i>Miniopterus fuliginosus</i>
JF500513	<i>Bartonella</i> sp.	No.07	Taiwan	<i>Miniopterus fuliginosus</i>

HM363764	<i>Bartonella</i> sp.	R-191	Nigeria	<i>Rousettus aegyptiacus</i>
MZ208702	<i>Bartonella</i> sp.	S833	China	<i>Myotis adversus</i>
KX655835	<i>Bartonella</i> sp.	SD117	China	<i>Myotis pequinius</i>
KX655829	<i>Bartonella</i> sp.	SD70	China	<i>Myotis fimbriatus</i>
KX655839	<i>Bartonella</i> sp.	SD78	China	<i>Myotis fimbriatus</i>
KR822802	<i>Bartonella hemsundetensis</i>	bat2053	Finland	<i>Myotis daubentonii</i>
KF003137	<i>Bartonella</i> sp.	NB-1.2	Finland	<i>Siphonaptera</i> sp.
JX416252	<i>Bartonella</i> sp.	05 01 07	Laos	<i>Phthiridium</i> sp. <i>scissa</i> group
MK140327	<i>Bartonella</i> sp.	15aCJ353606	Romania	<i>Penicillidia conspicua</i>
MK140280	<i>Bartonella</i> sp.	173CJ2734392	Romania	<i>Nycteribia kolenatii</i>
JX416251	<i>Bartonella</i> sp.	23 03 04	Panama	<i>Strebla diaemi</i>
MK140298	<i>Bartonella</i> sp.	52bCJ874156	Romania	<i>Nycteribia kolenatii</i>
LC461053	<i>Bartonella</i> sp.	Batfly-7	Zambia	<i>Eucampsipoda africana</i>
MT362931	<i>Bartonella</i> sp.	BE-12	South Korea	<i>Nycteribia allotopa</i>
MT362932	<i>Bartonella</i> sp.	BE-16	South Korea	<i>Penicillidia jenynsii</i>
MT362936	<i>Bartonella</i> sp.	BE-58	South Korea	<i>Phthiridium hindlei</i>
JN172074	<i>Bartonella</i> sp.	Cg 462	Equatorial Guinea	<i>Cyclopodia greffi</i>
JN172035	<i>Bartonella</i> sp.	Cg K1-2	Ghana	<i>Cyclopodia greffi</i>
JX416248	<i>Bartonella</i> sp.	CWD974	Mexico	<i>Trichobius johnsonae</i>
JX416253	<i>Bartonella</i> sp.	DR0583	Dominica	<i>Trichobius adamsi</i>
MZ208684	<i>Bartonella</i> sp.	FP13	China	<i>Nycteribiidae</i> spp.
MZ208687	<i>Bartonella</i> sp.	FP5-1	China	<i>Nycteribiidae</i> spp.
MZ208690	<i>Bartonella</i> sp.	FS2-2	China	<i>Penicillidia monoceros</i>
JX416239	<i>Bartonella</i> sp.	JAE1033	Philippines	<i>Leptocyclopodia</i> sp.
KP010152	<i>Bartonella</i> sp.	KEL02-3	Madagascar	<i>Cyclopodia dubia</i>
KP010155	<i>Bartonella</i> sp.	KEL04-1	Madagascar	<i>Cyclopodia dubia</i>
KP010164	<i>Bartonella</i> sp.	KEL19-1	Madagascar	<i>Cyclopodia dubia</i>
JX416238	<i>Bartonella</i> sp.	Mala15	Malaysia	<i>Phthiridium fraterna</i>
MH486969	<i>Bartonella</i> sp.	Nycteribiid	China	bat fly
JX416255	<i>Bartonella</i> sp.	P2874	Philippines	<i>Cyclopodia simulans</i>
MZ208694	<i>Bartonella</i> sp.	SFP4-2	China	<i>Nycteribiidae</i> spp.
MZ388461	<i>Bartonella</i> sp.	UM1a	Malaysia	bat fly
JX416246	Uncultured bacterium	Mala11	Malaysia	<i>Basilia coronata</i>
JX416241	Uncultured bacterium	ZAG03	Slovenia	<i>Basilia nattereri</i>
JQ695839	<i>Bartonella</i> sp.	AS025	Poland	<i>Spinturnix myoti</i>
JQ695840	<i>Bartonella</i> sp.	AS067	Poland	<i>Spinturnix myoti</i>
MZ208698	<i>Bartonella</i> sp.	MP8-2	China	bat mite
MH544201	<i>Bartonella</i> sp.	la23	Hungary	<i>Ixodes ariadnae</i>
MH578453	<i>Bartonella hemsundetensis</i>	lv76	Romania	<i>Ixodes vespertilionis</i>
NC_007618	<i>Brucella abortus</i>	2308	Out group	Out group
NZ_WMBQ0100001	<i>Hyphomicrobium album</i>	XQ2	Out group	Out group

**Table S3.** GenBank accession and information of reference sequences for MLSA

<i>gltA</i>	<i>ftsZ</i>	<i>rpoB</i>	Classification	Strain	Country	Host specis	Host order
NZ_CP015625	NZ_CP015625	NZ_CP015625	<i>Bartonella apis</i>	BBC0122	Switzerland	<i>Apis mellifera</i>	Arthropoda
MZ208687	MZ208708	MZ208744	<i>Bartonella</i> sp.	FP5-1	China	<i>Nycteribiidae</i> spp.	Arthropoda
MZ208684	MZ208715	MZ208744	<i>Bartonella</i> sp.	FP13	China	<i>Nycteribiidae</i> spp.	Arthropoda
MZ208698	MZ208727	MZ208759	<i>Bartonella</i> sp.	MP8-2	China	<i>Spinturnicidae</i> spp.	Arthropoda
KF199896	KF193408	KF218220	<i>Bartonella bovis</i>	B25100	Thailand	<i>Bos taurus</i>	Artiodactyla
AF293392	AB290192	AB290188	<i>Bartonella capreoli</i>	IBS193	France	<i>Capreolus capreolus</i>	Artiodactyla
KM215690	KM215688	KM215706	<i>Bartonella chomelii</i>	Ru15	Spain	<i>Bos taurus</i>	Artiodactyla
KM371042	KM371051	KJ909806	<i>Bartonella dromedarii</i>	69C	Israel	<i>Camelus dromedarius</i>	Artiodactyla
HG977196	HG977196	HG977196	<i>Bartonella schoenbuchensis</i>	MVT06	Sweden	<i>Alces alces</i>	Artiodactyla
NC_014932	NC_014932	NC_014932	<i>Bartonella clarridgeiae</i>	73	France	<i>Felis catus</i>	Carnivora
NZ_KL407337	NZ_KL407337	NZ_KL407337	<i>Bartonella rochalimae</i>	BMGH	Peru	<i>Carnivora</i> spp.	Carnivora
NZ_CP019787	NZ_CP019787	NZ_CP019787	<i>Bartonella</i> sp.	JB15	Japan	<i>Meles anakuma</i>	Carnivora
					French		
KP715473	KP715472	KP715475	<i>Bartonella rolaini</i>	C65	Guiana	<i>Noctilio albiventris</i>	Chiroptera
KF003115	KF003121	KF003118	<i>Bartonella</i> sp.	1157-3	Finland	<i>Eptesicus nilssonii</i>	Chiroptera
KF003129	KF003135	KF003132	<i>Bartonella</i> sp.	2574-1	Finland	<i>Myotis daubentonii</i>	Chiroptera
KY629840	KY629820	KY629921	<i>Bartonella</i> sp.	A14	Mexico	<i>Desmodus rotundus</i>	Chiroptera
KY629834	KY629824	KY629925	<i>Bartonella</i> sp.	A5	Mexico	<i>Desmodus rotundus</i>	Chiroptera
KY629854	KY629806	KY629907	<i>Bartonella</i> sp.	D4	Mexico	<i>Sturnira ludovici</i>	Chiroptera
KY629879	KY629803	KY629904	<i>Bartonella</i> sp.	DR13	Mexico	<i>Desmodus rotundus</i>	Chiroptera
KY629851	KY629799	KY629900	<i>Bartonella</i> sp.	DR24	Mexico	<i>Desmodus rotundus</i>	Chiroptera
				E2			
KM030511	KJ999683	KM215195	<i>Bartonella</i> sp.	B24225	Kenya	<i>Eidolon helvum</i>	Chiroptera
				E2			
MN270085	KJ999686	MN270150	<i>Bartonella</i> sp.	B39294	Ghana	<i>Eidolon helvum</i>	Chiroptera
				E5			
KM030520	KJ999689	KM215202	<i>Bartonella</i> sp.	B40014	Tanzania	<i>Eidolon helvum</i>	Chiroptera
KM030526	KJ999694	MN270154	<i>Bartonella</i> sp.	E5	Uganda	<i>Eidolon helvum</i>	Chiroptera

				B40908			
KY629884	KY629797	KY629898	<i>Bartonella</i> sp.	F2	Mexico	<i>Pteronotus parnellii</i>	Chiroptera
KY629882	KY629796	KY629897	<i>Bartonella</i> sp.	F9	Mexico	<i>Pteronotus parnellii</i>	Chiroptera
KY629850	KY629793	KY629894	<i>Bartonella</i> sp.	J3	Mexico	<i>Sturnira lilium</i>	Chiroptera
JF500513	JF500497	JF500545	<i>Bartonella</i> sp.	No.07	Taiwan	<i>Miniopterus fuliginosus</i>	Chiroptera
MZ208702	MZ208734	MZ208765	<i>Bartonella</i> sp.	S833	China	<i>Myotis davidii</i>	Chiroptera
HM363764	HM363769	HM363774	<i>Bartonella</i> sp.	R-191	Nigeria	<i>Rousettus aegyptiacus</i>	Chiroptera
			<i>Candidatus Bartonella</i>				
GU168962	GU168958	GU168961	<i>antechini</i>	MU1-F19	Australia	<i>Antechinus flavipes</i>	Dasyuromorphia
NC_020300	NC_020300	NC_020300	<i>Bartonella australis</i>	Aust-NH1	Australia	<i>Macropus giganteus</i>	Diprotodontia
HQ444152	HQ444150	HQ444151	<i>Candidatus Bartonella woyliei</i>	WC1	Australia	<i>Bettongia penicillata</i>	Diprotodontia
			<i>Candidatus Bartonella</i>				Peramelemorpha
HQ444165	HQ444163	HQ444164	<i>bandicootii</i>	BA1	Australia	<i>Oryctolagus cuniculus</i>	a
						<i>Perameles</i>	
NZ_KL503800	NZ_KL503800	NZ_KL503800	<i>Bartonella bacilliformis</i>	Cond044	Peru	<i>bougainville</i>	Primates
				HeidiMeji			
NZ_KK097685	NZ_KK097685	NZ_KK097685	<i>Bartonella bacilliformis</i>	a	Peru	<i>Homo sapiens</i>	Primates
NZ_KL503803	NZ_KL503805	NZ_KL503803	<i>Bartonella bacilliformis</i>	Ver097	Peru	<i>Homo sapiens</i>	Primates
CP003784	CP003784	CP003784	<i>Bartonella quintana</i>	RM-11	China	<i>Homo sapiens</i>	Primates
NC_005955	NC_005955	NC_005955	<i>Bartonella quintana</i>	Toulouse	France	<i>Macaca mulatta</i>	Primates
NZ_JH725147	NZ_JH725147	NZ_JH725147	<i>Bartonella tamiae</i>	Th239	Thailand	<i>Homo sapiens</i>	Primates
AB444979	AB602545	AB529942	<i>Bartonella acomydis</i>	KS2-1	Egypt	<i>Homo sapiens</i>	Rodentia
NZ_CM001557	NZ_CM001557	NZ_CM001557	<i>Bartonella birtlesii</i>	IBS325	UK	<i>Acomys russatus</i>	Rodentia
NZ_JH725033	NZ_JH725034	NZ_JH725033	<i>Bartonella elizabethae</i>	F9251	USA	<i>Apodemus sylvaticus</i>	Rodentia
NC_012846	NC_012846	NC_012846	<i>Bartonella grahamii</i>	as4aup	Sweden	<i>Rattus, Bandicota spp.</i>	Rodentia
KY555066	KY555065	KY555068	<i>Bartonella mastomydis</i>	008	Senegal	<i>Apodemus sylvaticus</i>	Rodentia
						<i>Mastomys</i>	
AB444978	AB602543	AB602555	<i>Bartonella pachyuromydis</i>	FN15-2	Netherlands	<i>erythroleucus</i>	Rodentia
NZ_WMBQ0100000	NZ_WMBQ0100000	NZ_WMBQ0100000					
1	1	1	<i>Hyphomicrobium album</i>	XQ2	Outgroup	Outgroup	Outgroup

**Table S4.** Primers used in the current study

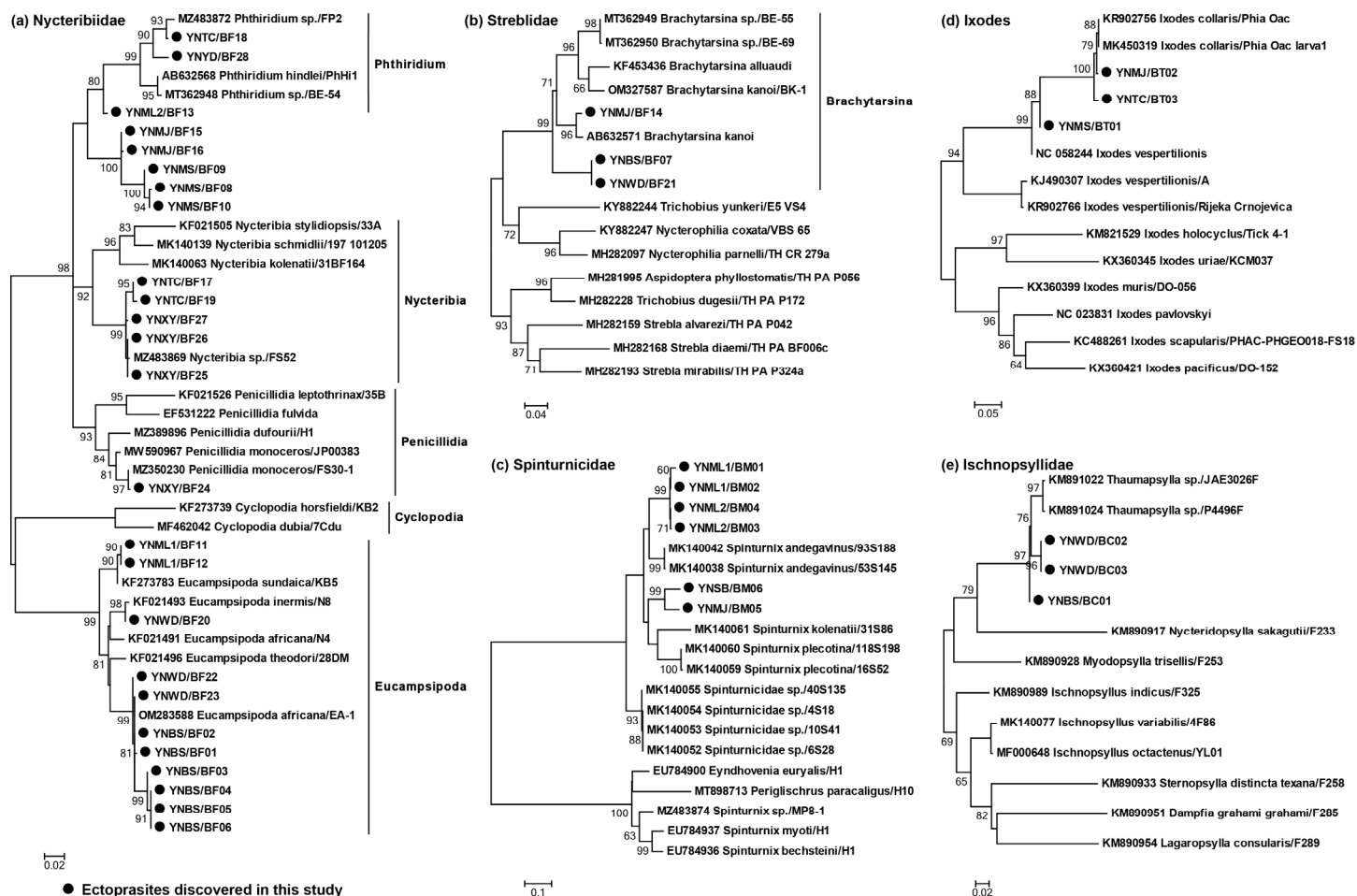
Target species	gene	Primers	Sequences (5'-3' )	PCR products (bp)	Reference
Bat ectoparasites	<i>COI</i>	LCO1490 HCO2198	GGTCAACAAATCATAAAGATATTGG TAAACTTCAGGGTGACCAAAAAATCA	710	[1]
<i>Bartonella</i> bacteria	<i>gltA</i>	<i>gltA</i> -F	GGGGACCAGCTCATGGTGG	380	[2]
		<i>gltA</i> -R	AATGCAAAAAGAACAGTAAACA		
	<i>rpoB</i>	<i>rpoB</i> -F	CGCATTGGCTTACTTCGTATG	851	[3]
		<i>rpoB</i> -R	GTAGACTGATTAGAACGCTG		
	<i>ftsZ</i>	<i>ftsZ</i> -F	ATTAATCTGCAYCGGCCAGATAT	786	[4]
		<i>ftsZ</i> -R	TCATCAATRGCVCCAAARAT		
	ITS	ITS-F ITS-R	AGAGGCAGGCAACCACGGTA GCCAAGGCATCCACC	1211-1529	[5]

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**Table S5** Samples distribution of 10 trapping sites

NO.	Counties	Bat ectoparasites					Total
		Bat flies		Mites	Ticks	Fleas	
		<i>Nycteribiidae</i>	<i>Streblidae</i>				
1	Baoshan	79	1	0	0	1	81
2	Mangshi	13	6	0	1	0	20
3	Mengla	43	0	33	0	0	76
4	Menglai	4	0	55	0	0	59
5	Mojiang	26	8	15	2	0	51
6	Shangbai	0	0	10	0	0	10
7	Tengchong	15	0	0	2	0	17
8	Wanding	44	2	0	0	20	66
9	Xiangyun	44	0	0	0	0	44
10	Yongde	10	0	0	0	0	10



**Figure S1.** Maximum likelihood tree for 40 mixed pools of bat ectoparasites based on the partial nucleotide sequence of the *COI* gene. Five families of bat-specific ectoparasites were contained: (a) *Nycteribiidae*, (b) *Streblidae*, (c) *Spinturnicidae*, (d) *Ixodidae*: *Ixodes*, (e) *Ischnopsyllidae*. The ectoparasites newly discovered in the current study are marked with solid black circles within the phylogenetic tree.