

## Supplementary Material

### **Diversity, phylogeny and distribution of the subtribe Cristariina (Bivalvia: Unionidae: Unioninae) from China, with description of a new genus and species**

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**Table S1. List of *COI* sequences used in this study, including the species, locations, specimen codes, voucher code and GenBank accession numbers.**

Species	Specimen code	Location	Voucher code	GenBank accession number	
<i>Buldowskia shadini</i>	NM_01F	Inner Mongolia Autonomous Region	SXNU_23072006	PP891445	
	NM_03F	Inner Mongolia Autonomous Region	SXNU_23072008	PP891446	
	NM_04	Inner Mongolia Autonomous Region	SXNU_23072009	PP891447	
	DD_10	Yalu River, Dandong City, Liaoning Province	SXNU_22101910	PP891448	
	HL_01	Yijimi River, Tieli City, Heilongjiang Province	SXNU_23031701	PP891449	
	HL_08	Yijimi River, Tieli City, Heilongjiang Province	SXNU_23031708	PP891450	
	HL_09	Yijimi River, Tieli City, Heilongjiang Province	SXNU_23031709	PP891451	
	HL_10	Yijimi River, Tieli City, Heilongjiang Province	SXNU_23031710	PP891452	
	HL_11	Yijimi River, Tieli City, Heilongjiang Province	SXNU_23031711	PP891453	
	HL_14	Yijimi River, Tieli City, Heilongjiang Province	SXNU_23031714	PP891454	
	SHJ_07	Songhua River, Harbin City, Heilongjiang Province	SXNU_24061607	PQ386981	
	YT_01	Yitong River, Nangan District, Changchun City, Jilin Province	SXNU_24081516	PQ386982	
	YT_05	Yitong River, Nangan District, Changchun City, Jilin Province	SXNU_24081520	PQ386983	
	<i>Pletholophus guangzhouensis</i>	XL_01	Guilin City, Guangxi Zhuang Autonomous Region	SXNU_23032525	PP891455
		BS_16	Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121116	PP891456
BS_19		Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121119	PP891457	
BS_20		Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121120	PP891458	
GX_01		Yongfu County, Guangxi Zhuang Autonomous Region	SXNU_23110501	PP891459	
GX_02		Yongfu County, Guangxi Zhuang Autonomous Region	SXNU_23110502	PP891460	
GX_03		Yongfu County, Guangxi Zhuang Autonomous Region	SXNU_23110503	PP891461	
GX_04		Yongfu County, Guangxi Zhuang Autonomous Region	SXNU_23110504	PP891462	
HX_03		Huixian Wetland in Guilin, Guangxi Province	SXNU_22041706	PQ386984	
LFH_04		Liangfeng River, Guilin City, Guangxi Province	SXNU_22041712	PQ386985	
THJ_11		Taohua River, Hunan Province	SXNU_22041709	PQ386986	
ZS_02		Zishui River, Yongzhou City, Hunan Province	SXNU_24072408	PQ386987	
ZS_03		Zishui River, Yongzhou City, Hunan Province	SXNU_24072409	PQ386988	
ZS_04		Zishui River, Yongzhou City, Hunan Province	SXNU_24072410	PQ386989	
<i>Sinanodonta schrenkii</i>		YLJ_01	Yalu River, Dandong City, Liaoning Province	SXNU_22101919	PP891463
	YLJ_03	Yalu River, Dandong City, Liaoning Province	SXNU_22101921	PP891464	
	DD_09	Yalu River, Dandong City, Liaoning Province	SXNU_22101909	PP891465	

Species	Specimen code	Location	Voucher code	GenBank accession number
<i>Sinanodonta woodiana</i>	DD_11	Yalu River, Dandong City, Liaoning Province	SXNU_22101911	PP891466
	DD_12	Yalu River, Dandong City, Liaoning Province	SXNU_22101912	PP891467
	DD_13	Yalu River, Dandong City, Liaoning Province	SXNU_22101913	PP891468
	DD_15	Yalu River, Dandong City, Liaoning Province	SXNU_22101918	PQ388174
	YLJ_02	Yalu River, Dandong City, Liaoning Province	SXNU_22101920	PP891469
	YLJ_04	Yalu River, Dandong City, Liaoning Province	SXNU_22101922	PP891470
	XL_03	Guilin City, Guangxi Zhuang Autonomous Region	SXNU_23032527	PP891471
	XJ_11	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110411	PP891472
	XJ_13	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110413	PP891473
	XJ_16	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110416	PP891474
	XJ_25	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110425	PP891475
	XJ_26	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110426	PP891476
	XJ_30	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110430	PP891477
	QS_09	Qiongshan District, Haikou City, Hainan Province	SXNU_23111809	PP891478
	QS_05	Qiongshan District, Haikou City, Hainan Province	SXNU_23111805	PP891479
	QS_04	Qiongshan District, Haikou City, Hainan Province	SXNU_23111804	PP891480
	QS_03	Qiongshan District, Haikou City, Hainan Province	SXNU_23111803	PP891481
	QS_01	Qiongshan District, Haikou City, Hainan Province	SXNU_23111801	PP891482
	LN_06	Dalian City, Liaoning Province	SXNU_23032118	PP891484
	LN_03	Dalian City, Liaoning Province	SXNU_23032115	PP891485
	GYN_07	Nanyang District, Guiyang City, Guizhou Province	SXNU_23121807	PP891486
	GYN_03	Nanyang District, Guiyang City, Guizhou Province	SXNU_23121803	PP891487
	DT_04	Datang Town, Guangdong Province	SXNU_23121904	PP891488
	BS_21	Baisha Town, Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121121	PP891489
	BS_18	Baisha Town, Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121118	PP891490
	BS_17	Baisha Town, Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121117	PP891491
	BS_14	Baisha Town, Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121114	PP891492
	YJ_04	Yangxi County, Guangdong Province	SXNU_22121143	PP891493
	WM_07	Wuming River, Fucheng town, Guangxi Zhuang Autonomous Region	SXNU_23041607	PP891494
	LA_01	Longhe Village, Shucheng County, Lu'an City, Anhui Province	SXNU_23061701	PQ386990
	LA_02	Longhe Village, Shucheng County, Lu'an City, Anhui Province	SXNU_23061702	PQ386991
	LA_03	Longhe Village, Shucheng County, Lu'an City, Anhui Province	SXNU_23061703	PQ386992

Species	Specimen code	Location	Voucher code	GenBank accession number
<i>Sinanodonta lauta</i>	LA_04	Longhe Village, Shucheng County, Lu'an City, Anhui Province	SXNU_23061704	PQ386993
	LA_05	Longhe Village, Shucheng County, Lu'an City, Anhui Province	SXNU_23061705	PQ386994
	LA_06	Longhe Village, Shucheng County, Lu'an City, Anhui Province	SXNU_23061706	PQ386995
	HX_04	Huixian Wetland in Guilin, Guangxi Province	SXNU_22041707	PQ386996
	THJ_10	Taohua River, Hunan Province	SXNU_22041708	PQ386997
	MY_05	Zhongba Street, Jiangyou City, Mianyang City, Sichuan Province	SXNU_24041803	PQ386998
	MY_06	Zhongba Street, Jiangyou City, Mianyang City, Sichuan Province	SXNU_24041804	PQ386999
	YN_01	Bamei Village, Guangan County, Yunnan Province	SXNU_22121409	PQ387000
	LS_15	Yanquan Street, Liandu District, Lishui City, Zhejiang Province	SXNU_24042015	PQ387001
	YY_01	Lushan Si Village, Hemudu Town, Ningbo City, Zhejiang Province	SXNU_23110505	PP891495
	YY_02	Lushan Si Village, Hemudu Town, Ningbo City, Zhejiang Province	SXNU_23110506	PP891496
	YY_05	Lushan Si Village, Hemudu Town, Ningbo City, Zhejiang Province	SXNU_23110509	PP891497
	YY_06	Lushan Si Village, Hemudu Town, Ningbo City, Zhejiang Province	SXNU_23110510	PP891498
	YY_07	Lushan Si Village, Hemudu Town, Ningbo City, Zhejiang Province	SXNU_23110511	PP891499
	NM_05	Inner Mongolia Autonomous Region	SXNU_23072010	PQ388172
	ZJ_12	Quzhou City, Zhejiang Province	SXNU_23040112	PP891500
	ZJ_14	Quzhou City, Zhejiang Province	SXNU_23040114	PP891501
	WJ_01	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23112401	PP891502
	WJ_02	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23112402	PP891503
	WJ_03	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23112403	PP891504
	WJ_04	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23112404	PP891505
	WJ_05	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23112405	PP891506
	LN_02	Dalian City, Liaoning Province	SXNU_23032114	PP891507
	LN_05	Dalian City, Liaoning Province	SXNU_23032117	PP891508
	QS_10	Dayuan Road, Qiongsan District, Haikou City, Hainan Province	SXNU_23111810	PP891510
	LN_04	Dalian City, Liaoning Province	SXNU_23032116	PP891511
	SHJ_12	Songhua River, Harbin City, Heilongjiang Province	SXNU_24061612	PQ387002
	JN_07	Nanyang Lake, Shiqiao Town, Jining City, Shandong Province	SXNU_24042001	PQ387003
	RZ_10	Guanhekou Village, Lingyang Town, Rizhao City, Shandong Province	SXNU_24030610	PQ387004
	RZ_11	Guanhekou Village, Lingyang Town, Rizhao City, Shandong Province	SXNU_24030611	PQ387005
	RZ_12	Guanhekou Village, Lingyang Town, Rizhao City, Shandong Province	SXNU_24030612	PQ387006

Species	Specimen code	Location	Voucher code	GenBank accession number
<i>Sinanodonta pacifica</i>	ZJ_15	Quzhou City, Zhejiang Province	SXNU_23040115	PP891513
	ZJ_11	Quzhou City, Zhejiang Province	SXNU_23040111	PP891514
	GYN_01	Nanyang District, Guiyang City, Guizhou Province	SXNU_23121801	PP891515
	GYN_02	Nanyang District, Guiyang City, Guizhou Province	SXNU_23121802	PP891516
	QS_06	Dayuan Road, Qiongsan District, Haikou City, Hainan Province	SXNU_23111806	PP891517
	QS_07	Dayuan Road, Qiongsan District, Haikou City, Hainan Province	SXNU_23111807	PP891518
	QS_08	Dayuan Road, Qiongsan District, Haikou City, Hainan Province	SXNU_23111808	PP891519
	BS_13	Baisha Town, Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121128	PP891520
	BS_15	Baisha Town, Yangshuo County, Guangxi Zhuang Autonomous Region	SXNU_22121115	PP891521
	YJ_01	Yangxi County, Guangdong Province	SXNU_22121140	PP891522
	YJ_03	Yangxi County, Guangdong Province	SXNU_22121142	PP891523
	YJ_06	Yangxi County, Guangdong Province	SXNU_22121147	PQ388173
	LS_18	Yanquan Street, Liandu District, Lishui City, Zhejiang Province	SXNU_24042018	PQ387007
	<i>Acudonta baitiaoensis</i> <b>gen. nov., sp. nov.</b>	BT_01	Baitiao River, Dujiangyan City, Sichuan Province	SXNU_23102001
BT_02		Baitiao River, Dujiangyan City, Sichuan Province	SXNU_23102002	PP891525
BT_03		Baitiao River, Dujiangyan City, Sichuan Province	SXNU_23102003	PP891526
BT_04		Baitiao River, Dujiangyan City, Sichuan Province	SXNU_23102004	PP891527
<i>Cristaria truncata</i>	FC_02	Wuming River, Nanning City, Guangxi Zhuang Autonomous Region	SXNU_23041617	PP891528
	WM_01	Wuming River, Nanning City, Guangxi Zhuang Autonomous Region	SXNU_23041601	PP891529
	WM_02	Wuming River, Nanning City, Guangxi Zhuang Autonomous Region	SXNU_23041602	PP891530
	WM_03	Wuming River, Nanning City, Guangxi Zhuang Autonomous Region	SXNU_23041603	PP891531
	WM_20	Wuming River, Nanning City, Guangxi Zhuang Autonomous Region	SXNU_23041620	PP891532
<i>Cristaria plicata</i>	DT_01	Datang Town, Sanshui District, Guangdong Province	SXNU_23121901	PP891533
	DT_02	Datang Town, Sanshui District, Guangdong Province	SXNU_23121902	PP891534
	DH_02	Dongting Lake, Yueyang City, Hubei Province	SXNU_23110102	PP891535
	ST_01	Taihu Lake Basin, Suzhou City, Jiangsu Province	SXNU_23082001	PP891536
	JS_01	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23110401	PP891537
	JS_10	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23110410	PP891538
	JS_11	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23110411	PP891539
	JS_12	Shengze Town, Wujiang District, Jiangsu Province	SXNU_23110412	PP891540
	SHJ_09	Songhua River, Harbin City, Heilongjiang Province	SXNU_24061609	PQ387008
	SHJ_10	Songhua River, Harbin City, Heilongjiang Province	SXNU_24061610	PQ387009

Species	Specimen code	Location	Voucher code	GenBank accession number
	JN_08	Nanyang Lake, Shiqiao Town, Jining City, Shandong Province	SXNU_24042002	PQ387010
	JN_09	Nanyang Lake, Shiqiao Town, Jining City, Shandong Province	SXNU_24042003	PQ387011
	JN_10	Nanyang Lake, Shiqiao Town, Jining City, Shandong Province	SXNU_24042004	PQ387012
	RZ_01	Guanhekou Village, Lingyang Town, Rizhao City, Shandong Province	SXNU_24030601	PQ387013
	RZ_02	Guanhekou Village, Lingyang Town, Rizhao City, Shandong Province	SXNU_24030602	PQ387014
	RZ_03	Guanhekou Village, Lingyang Town, Rizhao City, Shandong Province	SXNU_24030603	PQ387015
	RZ_04	Guanhekou Village, Lingyang Town, Rizhao City, Shandong Province	SXNU_24030604	PQ387016
<i>Cristaria beirensis</i>	MY_07	Zhongba Street, Jiangyou City, Mianyang City, Sichuan Province	SXNU_24041805	PQ387017
	MY_08	Zhongba Street, Jiangyou City, Mianyang City, Sichuan Province	SXNU_24041806	PQ387018
<i>Anemina arcaeiformis</i>	YZ_01	Hunan Jiangyongyuankou Provincial Nature Reserve Administration, Jiangyong County, Hunan Province	SXNU_23101201	PP891541
	YZ_02	Hunan Jiangyongyuankou Provincial Nature Reserve Administration, Jiangyong County, Hunan Province	SXNU_23101202	PP891542
	YZ_03	Hunan Jiangyongyuankou Provincial Nature Reserve Administration, Jiangyong County, Hunan Province	SXNU_23101203	PP891543
	YZ_04	Hunan Jiangyongyuankou Provincial Nature Reserve Administration, Jiangyong County, Hunan Province	SXNU_23101204	PP891544
	YZ_05	Hunan Jiangyongyuankou Provincial Nature Reserve Administration, Jiangyong County, Hunan Province	SXNU_23101205	PP891545
	YZ_06	Hunan Jiangyongyuankou Provincial Nature Reserve Administration, Jiangyong County, Hunan Province	SXNU_23101206	PP891546
	YY_04	Lushan Temple Village, Hemudu Town, Yuyao City, Ningbo City, Zhejiang Province	SXNU_23110508	PP891547
	AA_01	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071201	PQ387019
	AA_02	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071202	PQ387020
	AA_05	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071205	PQ387021
	AA_08	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071208	PQ387022
	AA_09	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071209	PQ387023
	AA_17	Gan River, Nanchang City, Jiangxi Province	SXNU_18071217	PQ387024
	AA_20	Gan River, Nanchang City, Jiangxi Province	SXNU_18071220	PQ387025
	LJ_22	Luojin Town, Yongfu County, Guilin, Guangxi Province	SXNU_23030522	PQ387026
	LJ_23	Luojin Town, Yongfu County, Guilin, Guangxi Province	SXNU_23030523	PQ387027

Species	Specimen code	Location	Voucher code	GenBank accession number
<i>Anemina euscaphys</i> <b>syn. nov.</b>	AE_03	Gan River, Nanchang City, Jiangxi Province	SXNU_18071203	PQ387028
	AE_04	Gan River, Nanchang City, Jiangxi Province	SXNU_18071204	PQ387029
	AE_06	Gan River, Nanchang City, Jiangxi Province	SXNU_18071206	PQ387030
	AE_07	Gan River, Nanchang City, Jiangxi Province	SXNU_18071207	PQ387031
	XJ_12	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110412	PQ387032
	SG_02	Shagou River, Guansheng Town, Chengdu City, Sichuan Province	SXNU_24061629	PQ387033
<i>Anemina fluminea</i> <b>syn. nov.</b>	AF_1	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071101	PQ387034
	AF_5	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071105	PQ387035
	XJ_17	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110417	PQ387036
	XJ_14	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110414	PQ387037
	XJ_15	Jinjiang River, a tributary of the Xiangjiang River, Hunan Province	SXNU_22110415	PQ387038
	WZ_01	Wenzhou, Zhejiang Province	SXNU_23032120	PQ387039
	WZ_02	Wenzhou, Zhejiang Province	SXNU_23032121	PQ387040
	WZ_03	Wenzhou, Zhejiang Province	SXNU_23032122	PQ387041
	WZ_06	Wenzhou, Zhejiang Province	SXNU_23032125	PQ387042
<i>Anemina globosula</i> <b>syn. nov.</b>	AG_04	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071104	PQ387043
	AG_12	Poyang Lake, Jiujiang City, Jiangxi Province	SXNU_18071212	PQ387044
	NS_10	Sanli Town, Shanglin County, Nanning City, Guangxi Zhuang Autonomous Region	SXNU_24090710	PQ387045
<i>Amuranodonta kijaensis</i>	HL_04	Yijimi River, Tieli City, Heilongjiang Province	SXNU_23031704	PP891548

**Table S2. List of species names with *COI* sequences in GenBank, examined haplotypes and verified sequence species names for *Sinanodonta* species**

GenBank name	GenBank number	Haplotype	Verified name
<i>Sinanodonta angula</i>	MG463057	Hap_1	<i>Sinanodonta angula</i>
<i>Sinanodonta angula</i>	MG742223	Hap_1	<i>Sinanodonta angula</i>
<i>Sinanodonta angula</i>	MG933697	Hap_1	<i>Sinanodonta angula</i>
<i>Sinanodonta angula</i>	MG463053	Hap_2	<i>Sinanodonta angula</i>
<i>Sinanodonta angula</i>	MG463054	Hap_2	<i>Sinanodonta angula</i>
<i>Sinanodonta angula</i>	MG463055	Hap_2	<i>Sinanodonta angula</i>
<i>Sinanodonta angula</i>	MG463056	Hap_2	<i>Sinanodonta angula</i>
<i>Sinanodonta angula</i>	MG933698	Hap_2	<i>Sinanodonta angula</i>
<i>Sinanodonta lauta</i>	OP709519	Hap_1	<i>Sinanodonta calipygos</i>
<i>Sinanodonta lauta</i>	OP709521	Hap_1	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	OP709522	Hap_1	<i>Sinanodonta calipygos</i>
<i>Sinanodonta lauta</i>	OP709523	Hap_1	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	OP709530	Hap_1	<i>Sinanodonta calipygos</i>
<i>Sinanodonta lauta</i>	OP709534	Hap_1	<i>Sinanodonta calipygos</i>
<i>Sinanodonta lauta</i>	OP709536	Hap_1	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	MT020627	Hap_2	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	MT020625	Hap_3	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	MT020628	Hap_4	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	MT020623	Hap_5	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	MT020624	Hap_5	<i>Sinanodonta calipygos</i>
<i>Sinanodonta calipygos</i>	MT020626	Hap_5	<i>Sinanodonta calipygos</i>
<i>Sinanodonta joreti</i>	MG463064	Hap_1	<i>Sinanodonta elliptica</i>
<i>Sinanodonta calipygos</i>	LC707521	Hap_1	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	KJ434488	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	KJ434489	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	KJ434490	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG463058	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG463059	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG463061	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG463062	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG463063	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	MG463071	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	MG463072	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	MG463074	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	MG463077	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	MG463079	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG933741	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG933742	Hap_2	<i>Sinanodonta elliptica</i>
<i>Sinanodonta joreti</i>	MG463065	Hap_3	<i>Sinanodonta elliptica</i>
<i>Sinanodonta elliptica</i>	MG933740	Hap_3	<i>Sinanodonta elliptica</i>
<i>Sinanodonta woodiana</i>	MG463067	Hap_4	<i>Sinanodonta elliptica</i>
<i>Sinanodonta</i> sp.	KY561635	Hap_1	<i>Sinanodonta jourdyi</i>
<i>Sinanodonta woodiana</i>	KX822668	Hap_2	<i>Sinanodonta jourdyi</i>
<i>Sinanodonta</i> sp.	KY978744	Hap_2	<i>Sinanodonta jourdyi</i>
<i>Sinanodonta</i> sp.	KY978745	Hap_2	<i>Sinanodonta jourdyi</i>
<i>Sinanodonta woodiana</i>	LC656037	Hap_1	<i>Sinanodonta pacifica</i>



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<i>Sinanodonta</i> sp.	LC651629	Hap_1	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	LC658986	Hap_1	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	LC651630	Hap_1	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KJ434487	Hap_2	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG463052	Hap_2	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KU891641	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KU891642	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051318	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051320	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051321	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051326	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424967	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424968	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424969	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424970	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424971	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424972	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424973	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424974	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424975	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424976	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424977	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424978	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX424979	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MG742232	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MH319867	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MH319868	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MN322554	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MN322555	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MN322557	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MN322558	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MN322559	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MT020605	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MT020610	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MT020615	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MT484285	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MT484286	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	MT484287	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta lauta</i>	OP709515	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta lauta</i>	OP709528	Hap_3	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051315	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051316	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051317	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051319	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051322	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051323	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051324	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051325	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591509	Hap_4	<i>Sinanodonta pacifica</i>

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<i>Sinanodonta</i> sp.	MG591510	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591511	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591515	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591516	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591517	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591519	Hap_4	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	KX051328	Hap_5	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591512	Hap_6	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591513	Hap_6	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591514	Hap_6	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG591518	Hap_6	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	OM698356	Hap_7	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	OM698357	Hap_7	<i>Sinanodonta pacifica</i>
<i>Sinanodonta woodiana</i>	OM698358	Hap_7	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG463048	Hap_8	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG463050	Hap_8	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG463049	Hap_9	<i>Sinanodonta pacifica</i>
<i>Sinanodonta</i> sp.	MG463051	Hap_9	<i>Sinanodonta pacifica</i>
<i>Anodonta arcaiformis</i>	GQ451869	Hap_9	<i>Sinanodonta pacifica</i>
<i>Sinanodonta lauta</i>	MT020629	Hap_9	<i>Sinanodonta pacifica</i>
<i>Sinanodonta lauta</i>	MT020630	Hap_9	<i>Sinanodonta pacifica</i>
<i>Anemina</i> sp.	KY561633	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta</i> sp.	KY978737	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta</i> sp.	KY978739	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta</i> sp.	KY978740	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta</i> sp.	KY978741	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809939	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809940	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809941	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809942	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809943	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809944	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809945	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809946	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809947	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809948	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809949	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809950	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809951	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN809952	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013157	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013158	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013159	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013160	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013161	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013164	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013165	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013166	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013169	Hap_1	<i>Sinanodonta lauta</i>

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<i>Sinanodonta lauta</i>	MT013170	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013171	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013174	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013176	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013184	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013187	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013188	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013189	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013194	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT013195	Hap_1	<i>Sinanodonta lauta</i>
<i>Sinanodonta</i> sp.	KY978742	Hap_2	<i>Sinanodonta lauta</i>
<i>Sinanodonta</i> sp.	KY978743	Hap_2	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	LC519015	Hap_2	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	LC707524	Hap_2	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	LC707526	Hap_2	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020606	Hap_2	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP709537	Hap_2	<i>Sinanodonta lauta</i>
<i>Sinanodonta calipygos</i>	LC707510	Hap_3	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020608	Hap_3	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020613	Hap_3	<i>Sinanodonta lauta</i>
<i>Sinanodonta calipygos</i>	LC707511	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta calipygos</i>	LC707512	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	LC707522	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	LC707523	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020614	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020640	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020641	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020642	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP709517	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP709524	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP709525	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP709535	Hap_4	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	LC707525	Hap_5	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020637	Hap_5	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020638	Hap_5	<i>Sinanodonta lauta</i>
<i>Anodonta arcaeformis</i>	GQ451870	Hap_6	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020632	Hap_6	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020636	Hap_6	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN900791	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN900792	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MN900793	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020617	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048111	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048112	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048113	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048114	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048115	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048116	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048117	Hap_7	<i>Sinanodonta lauta</i>

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<i>Sinanodonta lauta</i>	OP048118	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048119	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048120	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048121	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	OP048122	Hap_7	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020609	Hap_8	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020616	Hap_9	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020631	Hap_10	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020633	Hap_11	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020634	Hap_12	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020635	Hap_13	<i>Sinanodonta lauta</i>
<i>Sinanodonta lauta</i>	MT020639	Hap_14	<i>Sinanodonta lauta</i>
<i>Anemina arcaeformis</i>	OR751441	Hap_15	<i>Sinanodonta lauta</i>
<i>Anodonta lucida</i>	KX822667	Hap_1	<i>Sinanodonta lucida</i>
<i>Anodonta lucida</i>	MG463066	Hap_1	<i>Sinanodonta lucida</i>
<i>Anodonta lucida</i>	MG742231	Hap_1	<i>Sinanodonta lucida</i>
<i>Anodonta lucida</i>	MG933735	Hap_1	<i>Sinanodonta lucida</i>
<i>Sinanodonta schrenkii</i>	MT020612	Hap_1	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MT020611	Hap_2	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta amurensis</i>	KU853266	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta amurensis</i>	KU853267	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta amurensis</i>	KU853268	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta amurensis</i>	KU853269	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MK574232	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MK574234	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MK574235	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MK574236	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MK574237	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MK574238	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MT020607	Hap_3	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta woodiana</i>	MT126740	Hap_4	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MT020620	Hap_5	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MT020621	Hap_5	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta woodiana</i>	MT135190	Hap_6	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta woodiana</i>	GQ451868	Hap_7	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MT020619	Hap_8	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta woodiana</i>	GQ451867	Hap_9	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MT020618	Hap_9	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta schrenkii</i>	MK574233	Hap_10	<i>Sinanodonta schrenkii</i>
<i>Sinanodonta ogurae</i>	LC519023	Hap_1	<i>Sinanodonta tumens</i>
<i>Sinanodonta ogurae</i>	LC519024	Hap_1	<i>Sinanodonta tumens</i>
<i>Sinanodonta tumens</i>	MT020622	Hap_1	<i>Sinanodonta tumens</i>
<i>Sinanodonta woodiana</i>	MG515733	Hap_1	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515732	Hap_2	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515736	Hap_3	<i>Sinanodonta woodiana</i>
<i>Sinanodonta elliptica</i>	MG463060	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809937	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	JQ253893	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	JQ253894	Hap_4	<i>Sinanodonta woodiana</i>

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<i>Sinanodonta woodiana</i>	EF440349	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	AF468683	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KF731775	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KF731776	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KF731777	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KJ125078	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KJ125079	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KJ434482	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KJ434483	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KJ434484	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KJ434485	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KY978735	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KY978736	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KY978738	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414328	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414329	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414330	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414331	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414332	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414333	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414334	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414335	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414336	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414337	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414338	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414339	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414340	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414341	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414342	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414343	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414344	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414345	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414346	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414347	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414348	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414349	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414350	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414351	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414352	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MF414427	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta</i> aff. <i>woodiana</i>	MF497807	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta</i> aff. <i>woodiana</i>	MF497808	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta</i> aff. <i>woodiana</i>	MF497809	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta elliptica</i>	MG463060	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463068	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463069	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463070	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463073	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463078	Hap_4	<i>Sinanodonta woodiana</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Sinanodonta woodiana</i>	MG515731	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515734	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515735	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515737	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515738	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515739	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515740	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515741	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG515742	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta elliptica</i>	MG742233	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG933736	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG933738	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809929	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809930	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809931	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809932	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809933	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809934	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809935	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809936	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MN809938	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013156	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013162	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013163	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013167	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013168	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013172	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013173	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013175	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013177	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013178	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013179	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013180	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013181	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013182	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013183	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013185	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013186	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013190	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013191	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013192	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013193	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013196	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT013197	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MT126826	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MZ512215	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	OM698353	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	OM698354	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	OM698355	Hap_4	<i>Sinanodonta woodiana</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Sinanodonta woodiana</i>	OU070149	Hap_4	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463076	Hap_5	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG933737	Hap_5	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463080	Hap_6	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG933739	Hap_6	<i>Sinanodonta woodiana</i>
<i>Sinanodonta</i> aff. <i>woodiana</i>	MG581711	Hap_7	<i>Sinanodonta woodiana</i>
<i>Sinanodonta</i> aff. <i>woodiana</i>	MG581712	Hap_7	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	KJ434486	Hap_8	<i>Sinanodonta woodiana</i>
<i>Sinanodonta woodiana</i>	MG463075	Hap_8	<i>Sinanodonta woodiana</i>

**Table S3. List of species names with *COI* sequences in GenBank, examined haplotypes and verified sequence species names for *Pletholophus* species**

GenBank name	GenBank number	Haplotype	Verified name
<i>Pletholophus reinianus</i>	MT020603	Hap_1	<i>Pletholophus honglinhensis</i>
<i>Pletholophus honglinhensis</i>	OR912962	Hap_1	<i>Pletholophus honglinhensis</i>
<i>Pletholophus honglinhensis</i>	OR912963	Hap_1	<i>Pletholophus honglinhensis</i>
<i>Cristaria tenuis</i>	KX822658	Hap_1	<i>Pletholophus tenuis</i>
<i>Cristaria tenuis</i>	MT020599	Hap_1	<i>Pletholophus tenuis</i>
<i>Cristaria tenuis</i>	MT020602	Hap_2	<i>Pletholophus tenuis</i>
<i>Cristaria tenuis</i>	MT020600	Hap_3	<i>Pletholophus tenuis</i>
<i>Cristaria tenuis</i>	MT020601	Hap_4	<i>Pletholophus tenuis</i>
<i>Pletholophus honglinhensis</i>	OR912964	Hap_4	<i>Pletholophus tenuis</i>
<i>Cristaria tenuis</i>	LC707540	Hap_1	<i>Pletholophus reinianus</i>
<i>Cristaria tenuis</i>	LC519027	Hap_2	<i>Pletholophus reinianus</i>
<i>Cristaria tenuis</i>	LC519028	Hap_2	<i>Pletholophus reinianus</i>
<i>Pletholophus reinianus</i>	MT020604	Hap_2	<i>Pletholophus reinianus</i>
<i>Pletholophus guangzhouensis</i>	PP945818	Hap_1	<i>Pletholophus guangzhouensis</i>
<i>Pletholophus guangzhouensis</i>	PP945819	Hap_2	<i>Pletholophus guangzhouensis</i>
<i>Pletholophus guangzhouensis</i>	PP945820	Hap_3	<i>Pletholophus guangzhouensis</i>
<i>Pletholophus guangzhouensis</i>	PP945821	Hap_4	<i>Pletholophus guangzhouensis</i>



**Table S4. List of species names with *COI* sequences in GenBank, examined haplotypes, and verified sequence species names for *Beringiana* species**

GenBank name	GenBank number	Haplotype	Verified name
<i>Beringiana japonica</i>	LC519019	Hap_1	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MT020558	Hap_2	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574211	Hap_3	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574210	Hap_3	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574209	Hap_3	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574208	Hap_3	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MT020556	Hap_4	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574213	Hap_5	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574212	Hap_5	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MT020555	Hap_6	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	LC707478	Hap_6	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	LC707477	Hap_6	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574222	Hap_7	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	EU327357	Hap_8	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MT020557	Hap_9	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	DQ272370	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK034152	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MT020554	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574226	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574225	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574224	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574223	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574220	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574219	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574218	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574217	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574216	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574215	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574214	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574207	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574206	Hap_10	<i>Beringiana beringiana</i>
<i>Beringiana beringiana</i>	MK574221	Hap_11	<i>Beringiana beringiana</i>
<i>Beringiana fukuharai</i>	MT020565	Hap_1	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020563	Hap_2	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020568	Hap_3	<i>Beringiana fukuharai</i>
<i>Beringiana japonica</i>	LC519020	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020567	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020566	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020562	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020561	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707503	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707490	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707489	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707488	Hap_4	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020564	Hap_5	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020569	Hap_6	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707491	Hap_7	<i>Beringiana fukuharai</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Beringiana fukuharai</i>	MT020570	Hap_8	<i>Beringiana fukuharai</i>
<i>Sinanodonta calipygos</i>	LC519021	Hap_9	<i>Beringiana fukuharai</i>
<i>Sinanodonta calipygos</i>	LC519022	Hap_10	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020571	Hap_10	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020559	Hap_10	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707493	Hap_10	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707498	Hap_11	<i>Beringiana fukuharai</i>
<i>Beringiana japonica</i>	LC519018	Hap_12	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020575	Hap_13	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020573	Hap_14	<i>Beringiana fukuharai</i>
<i>Sinanodonta lauta</i>	LC519016	Hap_15	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707500	Hap_16	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707497	Hap_17	<i>Beringiana fukuharai</i>
<i>Sinanodonta lauta</i>	OP709529	Hap_18	<i>Beringiana fukuharai</i>
<i>Sinanodonta lauta</i>	OP709532	Hap_18	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020574	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020572	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707505	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707502	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707499	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707496	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707492	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707485	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707484	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC779808	Hap_19	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	MT020560	Hap_20	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707495	Hap_20	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707506	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707504	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707501	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707494	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028894	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028893	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028892	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028891	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028890	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028889	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028888	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028887	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028886	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028885	Hap_21	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028884	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028882	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028881	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028877	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028875	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028868	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028867	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028866	Hap_22	<i>Beringiana fukuharai</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Beringiana fukuharai</i>	OP028865	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028860	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028859	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028856	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028853	Hap_22	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028883	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028880	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028879	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028878	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028876	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028874	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028873	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028872	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028871	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028870	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028869	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028864	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028863	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028862	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028861	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028858	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028857	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028855	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	OP028854	Hap_23	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC592282	Hap_24	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707487	Hap_24	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC707486	Hap_24	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC779807	Hap_24	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC779806	Hap_24	<i>Beringiana fukuharai</i>
<i>Beringiana fukuharai</i>	LC779805	Hap_24	<i>Beringiana fukuharai</i>
<i>Beringiana gosannensis</i>	MT020584	Hap_1	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	LC707482	Hap_1	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020589	Hap_2	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020553	Hap_3	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020588	Hap_4	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020585	Hap_4	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020552	Hap_5	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020590	Hap_6	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020586	Hap_6	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	LC707483	Hap_6	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	LC707481	Hap_6	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	LC707480	Hap_6	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	LC707479	Hap_6	<i>Beringiana gosannensis</i>
<i>Beringiana gosannensis</i>	MT020587	Hap_7	<i>Beringiana gosannensis</i>
<i>Beringiana japonica</i>	MT020580	Hap_1	<i>Beringiana japonica</i>
<i>Beringiana japonica</i>	LC707476	Hap_2	<i>Beringiana japonica</i>
<i>Sinanodonta lauta</i>	LC519017	Hap_3	<i>Beringiana japonica</i>
<i>Beringiana japonica</i>	MT020583	Hap_4	<i>Beringiana japonica</i>
<i>Beringiana japonica</i>	MT020582	Hap_5	<i>Beringiana japonica</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Beringiana japonica</i>	MT020581	Hap_5	<i>Beringiana japonica</i>
<i>Beringiana japonica</i>	MT020578	Hap_6	<i>Beringiana japonica</i>
<i>Beringiana japonica</i>	MT020579	Hap_7	<i>Beringiana japonica</i>
<i>Beringiana japonica</i>	MT020577	Hap_8	<i>Beringiana japonica</i>
<i>Beringiana japonica</i>	MT020576	Hap_8	<i>Beringiana japonica</i>

**Table S5. List of species names with *COI* sequences in GenBank, examined haplotypes and verified sequence species names for *Anemina* species**

GenBank name	GenBank number	Haplotype	Verified name
<i>Anemina euscaphys</i>	OR701694	Hap_1	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	OR701695	Hap_2	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	OR701692	Hap_2	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	OR701693	Hap_3	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	OR751440	Hap_4	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	OR758157	Hap_5	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	OR758158	Hap_6	<i>Anemina arcaeformis</i>
<i>Anodonta arcaeformis</i>	KJ434481	Hap_7	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462933	Hap_7	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	MG462940	Hap_8	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911981	Hap_8	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	MG462942	Hap_9	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462934	Hap_9	<i>Anemina arcaeformis</i>
<i>Anodonta arcaeformis</i>	KJ434480	Hap_10	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462929	Hap_10	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911985	Hap_11	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462948	Hap_12	<i>Anemina arcaeformis</i>
<i>Anodonta arcaeformis</i>	KJ434479	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933706	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933705	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933704	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933703	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933701	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933700	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933699	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462947	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	MG462946	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	MG462945	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	MG462944	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	MG462943	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	MG462941	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462939	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462938	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462937	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462936	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462935	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462932	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462930	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG742225	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG742224	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MT020541	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911984	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911983	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911982	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911978	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911977	Hap_13	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911976	Hap_13	<i>Anemina arcaeformis</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Anemina arcaeformis</i>	MT020544	Hap_14	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MT020522	Hap_15	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911980	Hap_16	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	OR711106	Hap_17	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	OR758160	Hap_17	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	OR758159	Hap_17	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MK911979	Hap_18	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG933702	Hap_19	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	MG462931	Hap_19	<i>Anemina arcaeformis</i>
<i>Buldowskia flavotincta</i>	OR751515	Hap_20	<i>Anemina arcaeformis</i>
<i>Anemina arcaeformis</i>	KF667530	Hap_21	<i>Anemina arcaeformis</i>
<i>Anemina euscaphys</i>	KP187851	Hap_22	<i>Anemina arcaeformis</i>

**Table S6. List of species names with *COI* sequences in GenBank, examined haplotypes and verified sequence species names for *Buldowskia* species**

GenBank name	GenBank number	Haplotype	Verified name
<i>Anemina arcaeformis</i>	LC519025	Hap_1	<i>Buldowskia</i> sp.
<i>Sinanodonta lauta</i>	OP709518	Hap_2	<i>Buldowskia</i> sp.
<i>Sinanodonta lauta</i>	OP709531	Hap_2	<i>Buldowskia</i> sp.
<i>Buldowskia</i> sp.	OP709516	Hap_2	<i>Buldowskia</i> sp.
<i>Buldowskia flavotincta</i>	MT020538	Hap_1	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	OR690449	Hap_1	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	MT020537	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	MT020539	Hap_2	<i>Buldowskia flavotincta</i>
<i>Anodonta arcaeformis flavotincta</i>	GQ451871	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	MT020539	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	MT020537	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	OR690451	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	OR690450	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	OR752303	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	OR752302	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	OR752301	Hap_2	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	MT020540	Hap_3	<i>Buldowskia flavotincta</i>
<i>Anodonta arcaeformis flavotincta</i>	GQ451871	Hap_3	<i>Buldowskia flavotincta</i>
<i>Buldowskia flavotincta</i>	OR690452	Hap_4	<i>Buldowskia flavotincta</i>
<i>Buldowskia iwakawai</i>	MT020527	Hap_1	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	MT020550	Hap_2	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	MT020528	Hap_3	<i>Buldowskia iwakawai</i>
<i>Anemina arcaeformis</i>	LC519026	Hap_4	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	MT020549	Hap_4	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	MT020543	Hap_4	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	LC707542	Hap_4	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	LC767487	Hap_4	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	MT020524	Hap_5	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	LC648246	Hap_6	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	LC767486	Hap_6	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	MT020523	Hap_7	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	MT020542	Hap_8	<i>Buldowskia iwakawai</i>
<i>Buldowskia iwakawai</i>	OR701685	Hap_9	<i>Buldowskia iwakawai</i>
<i>Buldowskia kamiyai</i>	MT020525	Hap_1	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	MT020548	Hap_2	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	MT020547	Hap_3	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	MT020546	Hap_3	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	MT020545	Hap_3	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	MT020526	Hap_3	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	LC704514	Hap_3	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	LC704492	Hap_3	<i>Buldowskia kamiyai</i>
<i>Buldowskia kamiyai</i>	LC707541	Hap_3	<i>Buldowskia kamiyai</i>
<i>Buldowskia shadini</i>	MT020535	Hap_1	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	LC632473	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	LC632474	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	LC632475	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	LC632476	Hap_2	<i>Buldowskia shadini</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Buldowskia shadini</i>	LC632477	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MT020536	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MT020534	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574203	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574202	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574201	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574199	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MW259991	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MW259990	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MW259996	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MW259995	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MW259994	Hap_2	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MW259992	Hap_2	<i>Buldowskia shadini</i>
<i>Sinanodonta lauta</i>	MW996537	Hap_3	<i>Buldowskia shadini</i>
<i>Sinanodonta lauta</i>	MW996538	Hap_3	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574200	Hap_4	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574198	Hap_4	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MT020551	Hap_5	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MT020533	Hap_5	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574197	Hap_5	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574196	Hap_5	<i>Buldowskia shadini</i>
<i>Buldowskia shadini</i>	MK574195	Hap_5	<i>Buldowskia shadini</i>
<i>Buldowskia suifunica</i>	MK574193	Hap_1	<i>Buldowskia suifunica</i>
<i>Buldowskia suifunica</i>	MK574194	Hap_2	<i>Buldowskia suifunica</i>
<i>Buldowskia suifunica</i>	MT020532	Hap_3	<i>Buldowskia suifunica</i>
<i>Buldowskia suifunica</i>	MK574189	Hap_3	<i>Buldowskia suifunica</i>
<i>Buldowskia suifunica</i>	MT020531	Hap_4	<i>Buldowskia suifunica</i>
<i>Buldowskia suifunica</i>	MK574192	Hap_4	<i>Buldowskia suifunica</i>
<i>Buldowskia suifunica</i>	MK574191	Hap_4	<i>Buldowskia suifunica</i>
<i>Buldowskia suifunica</i>	MK574190	Hap_4	<i>Buldowskia suifunica</i>



**Table S7. List of species names with *COI* sequences in GenBank, examined haplotypes and verified sequence species names for *Amuranodonta* species**

GenBank name	GenBank number	Haplotype	Verified name
<i>Amuranodonta kijaensis</i>	MT020530	Hap_1	<i>Amuranodonta kijaensis</i>
<i>Amuranodonta kijaensis</i>	MT020529	Hap_2	<i>Amuranodonta kijaensis</i>
<i>Amuranodonta kijaensis</i>	MK574205	Hap_2	<i>Amuranodonta kijaensis</i>
<i>Amuranodonta kijaensis</i>	MK574204	Hap_2	<i>Amuranodonta kijaensis</i>

**Table S8. List of species names with *COI* sequences in GenBank, examined haplotypes and verified sequence species names for *Cristaria* species**

GenBank name	GenBank number	Haplotype	Verified name
<i>Cristaria bellua</i>	ON704642	Hap_1	<i>Cristaria bellua</i>
<i>Cristaria bellua</i>	ON704649	Hap_2	<i>Cristaria bellua</i>
<i>Cristaria bellua</i>	ON704648	Hap_2	<i>Cristaria bellua</i>
<i>Cristaria bellua</i>	ON704647	Hap_2	<i>Cristaria bellua</i>
<i>Cristaria bellua</i>	ON704646	Hap_2	<i>Cristaria bellua</i>
<i>Cristaria bellua</i>	ON704645	Hap_2	<i>Cristaria bellua</i>
<i>Cristaria bellua</i>	ON704644	Hap_2	<i>Cristaria bellua</i>
<i>Cristaria bellua</i>	ON704643	Hap_3	<i>Cristaria bellua</i>
<i>Cristaria clessini</i>	MT025813	Hap_1	<i>Cristaria clessini</i>
<i>Cristaria clessini</i>	MT025814	Hap_2	<i>Cristaria clessini</i>
<i>Cristaria clessini</i>	MT020592	Hap_3	<i>Cristaria clessini</i>
<i>Cristaria plicata</i>	LC519014	Hap_3	<i>Cristaria clessini</i>
<i>Cristaria plicata</i>	LC519013	Hap_3	<i>Cristaria clessini</i>
<i>Cristaria plicata</i>	LC519012	Hap_3	<i>Cristaria clessini</i>
<i>Cristaria plicata</i>	LC519011	Hap_3	<i>Cristaria clessini</i>
<i>Cristaria plicata</i>	EU698936	Hap_1	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698907	Hap_2	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698950	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698949	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698948	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698947	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698946	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698944	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698941	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698919	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698914	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698904	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698902	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698897	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698894	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MG933708	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MG462957	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MG742227	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KU660074	Hap_3	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698939	Hap_4	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698921	Hap_5	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698927	Hap_6	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698945	Hap_7	<i>Cristaria plicata</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Cristaria plicata</i>	EU698938	Hap_7	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698900	Hap_8	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698908	Hap_9	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698928	Hap_10	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698906	Hap_11	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698933	Hap_12	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698899	Hap_12	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698905	Hap_13	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698926	Hap_14	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698924	Hap_15	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698903	Hap_15	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MG462958	Hap_15	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698922	Hap_16	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698895	Hap_16	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KT348508	Hap_16	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KT348507	Hap_16	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KU297678	Hap_16	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MK574242	Hap_16	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MG462959	Hap_17	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698925	Hap_18	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698923	Hap_18	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MG462956	Hap_18	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MK574243	Hap_19	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698931	Hap_20	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KT362705	Hap_21	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KT362704	Hap_21	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KX822637	Hap_21	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MK574241	Hap_22	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698918	Hap_23	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698920	Hap_24	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT025817	Hap_25	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT025811	Hap_26	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT025812	Hap_27	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	KY561634	Hap_28	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MK574240	Hap_28	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MK574239	Hap_28	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698913	Hap_29	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT020591	Hap_30	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	GQ451860	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698935	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698930	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698916	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698912	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	LC519010	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	LC519009	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	LC519008	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT020595	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT020594	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria clessini</i>	MT020593	Hap_31	<i>Cristaria plicata</i>

GenBank name	GenBank number	Haplotype	Verified name
<i>Cristaria plicata</i>	MT025816	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT025815	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	OR701679	Hap_31	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698932	Hap_32	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698901	Hap_33	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	JF700152	Hap_34	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698934	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698929	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698917	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698915	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698898	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698896	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698893	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	JF700153	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MK574245	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MK574244	Hap_35	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698911	Hap_36	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	MT020596	Hap_37	<i>Cristaria plicata</i>
<i>Cristaria plicata</i>	EU698909	Hap_1	<i>Cristaria radiata</i>
<i>Cristaria plicata</i>	EU698910	Hap_2	<i>Cristaria radiata</i>
<i>Cristaria plicata</i>	EU698937	Hap_3	<i>Cristaria radiata</i>
<i>Cristaria plicata</i>	EU698942	Hap_4	<i>Cristaria radiata</i>
<i>Cristaria plicata</i>	EU698943	Hap_5	<i>Cristaria radiata</i>
<i>Cristaria plicata</i>	EU698940	Hap_5	<i>Cristaria radiata</i>
<i>Cristaria truncata</i>	OP491287	Hap_1	<i>Cristaria truncata</i>
<i>Cristaria truncata</i>	OP491291	Hap_2	<i>Cristaria truncata</i>
<i>Cristaria truncata</i>	OP491290	Hap_2	<i>Cristaria truncata</i>
<i>Cristaria truncata</i>	OP491289	Hap_2	<i>Cristaria truncata</i>
<i>Cristaria truncata</i>	OP491288	Hap_2	<i>Cristaria truncata</i>

**Table S9. Sequences from the complete mitogenomes used for molecular analyses and corresponding GenBank numbers.**

Unioninae	Anodontini	Cristariina	<i>Sinanodonta lucida</i>	KF667529	
			<i>Sinanodonta tumens</i>	LC592406	
			<i>Cristaria plicata</i>	FJ986302	
			<i>Anemina arcaeformis</i>	KF667530	
			<i>Beringiana fukuharai</i>	LC592410	
			<i>Sinanodonta lauta</i> <sup>A</sup>	PP667396	YY01
			<i>Sinanodonta woodiana</i> <sup>A</sup>	PP667397	YJ02
			<i>Sinanodonta schrenkii</i> <sup>A</sup>	PP626052	DD09
			<i>Sinanodonta pacifica</i> <sup>A</sup>	PQ397627	YJ01
			<i>Cristaria beirensis</i> <sup>A</sup>	PQ397626	MY07
			<i>Cristaria truncata</i> <sup>A</sup>	PP579635	WM03
			<i>Amuranodonta kijaensis</i> <sup>A</sup>	OR933735	HL04
			<i>Buldowskia shadini</i> <sup>A</sup>	PP657034	HL01
			<i>Acudonta baitiaoensis</i> <b>gen. nov., sp. nov.</b> <sup>A</sup>	PP621563	BT01
			<i>Pletholophus guangzhouensis</i> <sup>A</sup>	PP621517	GX02
	Unionini (Outgroups)		<i>Unio crassus</i>	OR912547	
			<i>Unio delphinus</i>	KT326917	

<sup>A</sup>Sequences from this study.

**Table S10. Partitioning schemes and best-fit models identified from *PartitionFinder* and *ModelFinder* for mitochondrial gene dataset*****ModelFinder* for ML analysis**

Best Model	Partition names
HKY+F+G4	atp6_NT_removed_chars_gb_codon1; cox2_NT_removed_chars_gb_codon1; nad4_NT_removed_chars_gb_codon1; nad6_NT_removed_chars_gb_codon1
HKY+F+I	cytb_NT_removed_chars_gb_codon2
K3Pu+F+G4	cox3_NT_removed_chars_gb_codon1; nad3_NT_removed_chars_gb_codon1
K3Pu+F+I+G4	nad4_NT_removed_chars_gb_codon2; nad5_NT_removed_chars_gb_codon2
TIM+F+G4	nad5_NT_removed_chars_gb_codon1
TIM2+F+G4	cytb_NT_removed_chars_gb_codon3; nad3_NT_removed_chars_gb_codon3; nad4L_NT_removed_chars_gb_codon1; rrrL_mafft_gb; rrrS_mafft_gb
TIM2e+I+G4	cytb_NT_removed_chars_gb_codon1; nad1_NT_removed_chars_gb_codon1
TIM3+F+G4	nad4L_NT_removed_chars_gb_codon2; nad6_NT_removed_chars_gb_codon2
TN+F	atp6_NT_removed_chars_gb_codon3
TN+F+G4	cox3_NT_removed_chars_gb_codon3; nad1_NT_removed_chars_gb_codon3; nad2_NT_removed_chars_gb_codon1; nad4_NT_removed_chars_gb_codon3; nad5_NT_removed_chars_gb_codon3; nad6_NT_removed_chars_gb_codon3
TN+F+I	nad4L_NT_removed_chars_gb_codon3
TN+F+I+G4	cox1_NT_removed_chars_gb_codon1; cox2_NT_removed_chars_gb_codon3; nad2_NT_removed_chars_gb_codon3
TPM2+F+G4	cox1_NT_removed_chars_gb_codon3; nad3_NT_removed_chars_gb_codon2
TPM2+F+I	cox1_NT_removed_chars_gb_codon2; nad1_NT_removed_chars_gb_codon2
TPM3u+F+G4	atp6_NT_removed_chars_gb_codon2; nad2_NT_removed_chars_gb_codon2
TPM3u+F+I+G4	cox3_NT_removed_chars_gb_codon2
TVM+F+I	cox2_NT_removed_chars_gb_codon2

***PartitionFinder* for BI analysis**

Best Model	Partition names
GTR+I+G	nad5_NT_removed_chars_gb_codon1, nad4L_NT_removed_chars_gb_codon1, nad4_NT_removed_chars_gb_codon1, atp6_NT_removed_chars_gb_codon1
GTR+I+G	nad3_NT_removed_chars_gb_codon2, atp6_NT_removed_chars_gb_codon2
GTR+I+G	nad4L_NT_removed_chars_gb_codon3, cox2_NT_removed_chars_gb_codon3, atp6_NT_removed_chars_gb_codon3
GTR+I+G	cox1_NT_removed_chars_gb_codon1
GTR+I+G	cox1_NT_removed_chars_gb_codon2, cox3_NT_removed_chars_gb_codon2
GTR+G	cox1_NT_removed_chars_gb_codon3, nad4_NT_removed_chars_gb_codon3
HKY+G	cox2_NT_removed_chars_gb_codon1, cox3_NT_removed_chars_gb_codon1
GTR+I+G	cox2_NT_removed_chars_gb_codon2
GTR+G	nad3_NT_removed_chars_gb_codon3, cox3_NT_removed_chars_gb_codon3

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GTR+I+G	cytb_NT_removed_chars_gb_codon1, nad1_NT_removed_chars_gb_codon1
GTR+I+G	cytb_NT_removed_chars_gb_codon2, nad1_NT_removed_chars_gb_codon2
GTR+G	cytb_NT_removed_chars_gb_codon3
GTR+I+G	nad1_NT_removed_chars_gb_codon3, nad6_NT_removed_chars_gb_codon3; nad2_NT_removed_chars_gb_codon3
GTR+G	nad2_NT_removed_chars_gb_codon1, nad6_NT_removed_chars_gb_codon1
GTR+G	nad2_NT_removed_chars_gb_codon2, nad6_NT_removed_chars_gb_codon2
HKY+G	nad3_NT_removed_chars_gb_codon1
GTR+I+G	nad4L_NT_removed_chars_gb_codon2, nad4_NT_removed_chars_gb_codon2, nad5_NT_removed_chars_gb_codon2
GTR+G	nad5_NT_removed_chars_gb_codon3
GTR+I+G	rrnL_mafft_gb
GTR+I+G	rrnS_mafft_gb

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