

Supporting Information



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Table S1. List of species (voucher, host, country) and GenBank™ accession numbers of genes *cox1* and *lsu lsrDNA* used in the analysis.

Parasite species	Voucher	Host species	Country	<i>cox1</i>	<i>lsu lsrDNA</i>
<i>Atractolytocestus huronensis</i> Anthony, 1958	AH/HU/22	<i>Cyprinus carpio</i> Linnaeus	Hungary	HM480476	JQ034115
<i>Atractolytocestus sagittatus</i> (Kulakovskaya et Akhmerov, 1965)	JP8b	<i>Cyprinus carpio</i>	Japan	JF424669	JQ034116
<i>Atractolytocestus tenuicollis</i> (Li, 1964)	1	<i>Cyprinus carpio</i>	China	KC834609	N/A
<i>Breviscolex orientalis</i> Kulakovskaya, 1962	BMNH-2001.1.30.1	<i>Hemibarbus barbus</i> (Temminck et Schlegel)	Japan	JQ034055	AF286910
<i>Caryophyllaeides fennica</i> (Schneider, 1902)	SK118a	<i>Ballerus sapa</i> (Pallas)	Slovakia	KF051116	KF051161
<i>Caryophyllaeides fennica</i>	SK124c	<i>Ballerus sapa</i>	Slovakia	KF051119	KF051164
<i>Caryophyllaeides fennica</i>	SK124d	<i>Ballerus sapa</i>	Slovakia	KF051120	KF051165
<i>Caryophyllaeides fennica</i>	166Aa	<i>Barbus cyclolepis</i> Heckel	Bulgaria	KF051125	KF051172
<i>Caryophyllaeides fennica</i>	166A	<i>Barbus cyclolepis</i>	Bulgaria	KF051101	KF051171
<i>Caryophyllaeus balticus</i> (Szidat, 1941)	BALT	<i>Tinca tinca</i> (Linnaeus)	CR	JN004233	JN004266
<i>Caryophyllaeus brachycollis</i> Janiszewska, 1953	sk35	<i>Barbus carpathicus</i> Kotlík, Tsigenopoulos, Ráb et Berrebi	Slovakia	JQ034064	JQ034120
<i>Caryophyllaeus brachycollis</i>	31/09-2	<i>Abramis brama</i> (Linnaeus)	Slovakia	KF051121	KF051166
<i>Caryophyllaeus brachycollis</i>	15/09-5	<i>Abramis brama</i>	Slovakia	KF051122	KF051167
<i>Caryophyllaeus brachycollis</i>	35/09	<i>Abramis brama</i>	Slovakia	KF051123	KF051139
<i>Caryophyllaeus brachycollis</i>	63R	<i>Blicca bjoerkna</i> (Linnaeus)	Russia	KF051133	KF051174
<i>Caryophyllaeus brachycollis</i>	TS04/79	<i>Abramis brama</i>	Russia	KF051134	KF051175
<i>Caryophyllaeus brachycollis</i>	TS07/83	<i>Barbus meridionalis</i> Risso	France	KF051135	KF051137
<i>Caryophyllaeus brachycollis</i>	TS07/85	<i>Barbus barbus</i> (Linnaeus)	France	KF051136	KF051181
<i>Caryophyllaeus brachycollis</i>	sk96	<i>Abramis brama</i>	Slovakia	JQ034078	JQ034124
<i>Caryophyllaeus brachycollis</i>	VH131/06	<i>Abramis brama</i>	Slovakia	KF051100	KF051168
<i>Caryophyllaeus brachycollis</i>	VH83DA	<i>Barbus cyclolepis</i>	Bulgaria	KF051124	KF051170
<i>Caryophyllaeus chondrostomi</i> sp. n.	TS09/194a	<i>Chondrostoma nasus</i> (Linnaeus)	Austria	KF051128	KF051178
<i>Caryophyllaeus chondrostomi</i> sp. n.	TS09/194c	<i>Chondrostoma nasus</i>	Austria	KF051129	KF051179
<i>Caryophyllaeus chondrostomi</i> sp. n.	TS09/195b	<i>Chondrostoma nasus</i>	Austria	KF051130	KF051180
<i>Caryophyllaeus laticeps</i> (Pallas, 1781)	04/112	<i>Cyprinus carpio</i>	Slovakia	JQ034066	JQ034121
<i>Caryophyllaeus laticeps</i>	IT209/16-1	<i>Cyprinus carpio</i>	Italy	KY617001	KY617010
<i>Caryophyllaeus laticeps</i>	IT211/16-1	<i>Cyprinus carpio</i>	Italy	KY617002	KY617011
<i>Caryophyllaeus laticeps</i>	IT211/16-2	<i>Cyprinus carpio</i>	Italy	KY617003	KY617012
<i>Caryophyllaeus laticeps</i>	IT211/16-3	<i>Cyprinus carpio</i>	Italy	KY617004	KY617013
<i>Caryophyllaeus laticeps</i>	IT211/16-4	<i>Cyprinus carpio</i>	Italy	KY617005	KY617014
<i>Caryophyllaeus laticeps</i>	IT212/16-1	<i>Cyprinus carpio</i>	Italy	KY617006	KY617015
<i>Caryophyllaeus laticeps</i>	IT212/16-2	<i>Cyprinus carpio</i>	Italy	KY617007	KY617016
<i>Caryophyllaeus laticeps</i>	IT212/16-3	<i>Cyprinus carpio</i>	Italy	KY617008	KY617017
<i>Caryophyllaeus laticeps</i>	IT212/16-4	<i>Cyprinus carpio</i>	Italy	KY617009	KY617018
<i>Caryophyllaeus laticeps</i>	13/3A	<i>Vimba melanops</i> (Heckel)	Bulgaria	KF051092	KF051145
<i>Caryophyllaeus laticeps</i>	14/1A	<i>Vimba melanops</i>	Bulgaria	KF051093	KF051147
<i>Caryophyllaeus laticeps</i>	14/5A	<i>Vimba melanops</i>	Bulgaria	KF051097	KF051151
<i>Caryophyllaeus laticeps</i>	13/2A	<i>Vimba melanops</i>	Bulgaria	KF051102	KF051144
<i>Caryophyllaeus laticeps</i>	13/5A	<i>Vimba melanops</i>	Bulgaria	KF051104	KF051141
<i>Caryophyllaeus laticeps</i>	13/1A	<i>Vimba melanops</i>	Bulgaria	KF051108	KF051143
<i>Caryophyllaeus laticeps</i>	SK160d/11	<i>Ballerus sapa</i>	Slovakia	KF051114	KF051159
<i>Caryophyllaeus laticeps</i>	SK121a	<i>Ballerus sapa</i>	Slovakia	KF051117	KF051162
<i>Caryophyllaeus laticeps</i>	SK121c	<i>Ballerus sapa</i>	Slovakia	KF051118	KF051163
<i>Caryophyllaeus laticeps</i>	203	<i>Abramis brama</i>	Russia	KF051126	KF051176
<i>Caryophyllaeus laticeps</i>	201	<i>Abramis brama</i>	Russia	KF051127	KF051177
<i>Caryophyllaeus laticeps</i>	SK23/10b	<i>Abramis brama</i>	Slovakia	KF051131	KF051169
<i>Caryophyllaeus laticeps</i>	198	<i>Ballerus sapa</i>	Russia	KF051132	KF051173
<i>Caryophyllaeus laticeps</i>	L14	<i>Abramis brama</i>	China	KT781573	N/A
<i>Caryophyllaeus laticeps</i>	L15	<i>Abramis brama</i>	China	KT781574	N/A
<i>Caryophyllaeus laticeps</i>	B1	<i>Abramis brama</i>	China	KT781575	N/A
<i>Caryophyllaeus laticeps</i>	B4	<i>Abramis brama</i>	China	KT781576	N/A

Continued.

Table S1. Continued.

Parasite species	Voucher	Host species	Country	<i>cox1</i>	<i>lsu lsrDNA</i>
<i>Caryophyllaeus laticeps</i>	L6	<i>Abramis brama</i>	China	KT781577	N/A
<i>Caryophyllaeus laticeps</i>	B2	<i>Abramis brama</i>	China	KT781578	N/A
<i>Caryophyllaeus laticeps</i>	B12	<i>Abramis brama</i>	China	KT781579	N/A
<i>Caryophyllaeus laticeps</i>	L1	<i>Abramis brama</i>	China	KT781580	N/A
<i>Caryophyllaeus</i> sp.	sk97	<i>Abramis brama</i>	Slovakia	JQ034070	JQ034123
<i>Caryophyllaeus</i> sp.	sk36	<i>Ballerus sapa</i>	Slovakia	JQ034077	JQ034122
<i>Diphyllobothrium dendriticum</i> (Nitzsch, 1824)	CZ49	<i>Homo sapiens</i> Linnaeus	CR	KC812047	KR269757
<i>Djombangia penetrans</i> Bovien, 1926	TS09/50	<i>Clarias batrachus</i> (Linnaeus)	India	JQ034085	JQ034125
<i>Glaridacris catostomi</i> Cooper, 1920	TS08/51	<i>Catostomus commersoni</i> (Lacepède)	USA	JQ034088	JQ034126
<i>Hunterella nodulosa</i> Mackiewicz et McCrae, 1962	TS08/53	<i>Catostomus commersoni</i>	USA	JQ034091	JQ034127
<i>Khawia armeniaca</i> (Cholodkovsky, 1915)	sk89	<i>Coregonus lavaretus</i> (Linnaeus)	Armenia	JN004224	JN004257
<i>Khawia</i> cf. <i>armeniaca</i>	09_262	<i>Luciobarbus bocagei</i> (Steindachner)	Portugal	JN004230	JN004263
<i>Khawia japonensis</i> (Yamaguti, 1934)	sk40	<i>Cyprinus carpio</i>	Japan	JN004225	JN004258
<i>Khawia japonensis</i>	SK375-14b	<i>Cyprinus carpio</i>	Slovakia	KP790243	KP790244
<i>Khawia parva</i> (Zmееv, 1936)	PARVA	<i>Carassius auratus</i> (Linnaeus)	Russia	JN004234	JN004267
<i>Khawia rossittensis</i> (Szidat, 1937)	sk103	<i>Carassius auratus</i>	Japan	JN004226	JN004259
<i>Khawia rossittensis</i>	sk93	<i>Carassius auratus</i>	Slovakia	JN004227	JN004260
<i>Khawia saurogobii</i> Xi, Oros, Wang, Wu, Gao et Nie, 2009	09_135	<i>Saurogobio dabryi</i> Bleeker	China	JN004229	JN004262
<i>Khawia sinensis</i> Hsü, 1935	sk32	<i>Cyprinus carpio</i>	Slovakia	JN004228	JN004261
<i>Khawia sinensis</i>	sk104	<i>Cyprinus carpio</i>	Japan	JN004231	JN004264
<i>Khawia sinensis</i>	09_104	<i>Cyprinus carpio</i>	China	JN004232	JN004265
<i>Lytocestus indicus</i> (Moghe, 1925)	TS09/67	<i>Clarias batrachus</i>	India	JQ034097	JQ034128
<i>Monobothrioides</i> sp.	TS006/74	<i>Auchenoglanis</i> sp.	Sudan	JQ034099	JQ034129
<i>Wenyonia virilis</i> Woodland, 1923	SUD382	<i>Synodontis schall</i> (Bloch et Schneider)	Sudan	JQ034111	JQ034131

N/A – not available; CR – Czech Republic. GenBank™ accession numbers in bold indicate data generated in the present study.