

Additional File 1: Table S1. Table containing all sequence data available for the family Diplozoidae, as compiled from public data repositories (GenBank) and literature.

Diplozoid species	Host species ^a	Region	Accession number	Reference	Locality	Taxonomic synonyms used
<i>Afrodiplozoon polycotyleus</i> (Paperna, 1973)	<i>Labeobarbus marequensis</i> (Smit, 1841)	ITS2	LT719088	[1]	Lutanandwa River, Limpopo Province, South Africa	–
<i>Diplozoon guptai</i> Fayaz & Chishti, 2000	<i>Schizopyge niger</i> (Heckel, 1838)	ITS2	AF973618^b	[2, 3]	Dal and Anchar Lake, Kashmir Valley, India	<i>Schizothorax niger</i> Heckel, 1838
<i>Diplozoon paradoxum</i> Nordmann, 1832	<i>Abramis brama</i> (Linnaeus, 1758)	28S	AF131717	[4]	Sweden	<i>Diplozoon</i> sp. ^f
		COI	KP340976	Wang & Yue ^e	China	–
		ITS2	KP326299	Wang & Yue ^e	China	–
			AJ563372	[5]	Kyjovka River, Czech Republic	
		ITS2 + 28S	AF369759	[6]	Scamandre pond, Camargue, France [7]	<i>Diplozoon paradoxum</i> Von Nordmann, 1832
<i>Eudiplozoon kamegaii</i> Nishihira & Urabe, 2020	<i>Cyprinus carpio</i> Linnaeus, 1758	18S	AJ287510	[8]	–	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
			MF579987	[9] ^d	Mert Lake, İğneada, Kırklareli, Turkey	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
		28S	AF311703	[10]	France	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
						<i>Diplozoon nipponicum</i> Goto, 1891
			AF382037	[11]	Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
		Cathepsin B ^e	MF346929	[12]	South Bohemia, Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
		Cathepsin L1 ^e	KP793605	[13]	South Bohemia, Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)

		Cathepsin L3°	KP793606	[13]	South Bohemia, Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
		COI	AY009163	[10]	France	<i>Eudiplozoon nipponicum</i> (Goto, 1891) <i>Diplozoon nipponicum</i> Goto, 1891
			LC517174–5	[14]	Shiga, Japan	–
		Cysteine peptidase inhibitor (stefin)	KY192529	[15]	Mušov lowland reservoir, Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
		ITS2	AJ300710	[16]	Morava River, Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
			DQ098895	[17]	Tangxun Lake, China	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
			DQ098896	[17]	Hong Lake, China	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
			DQ098897	[17]	Danjiangkou Reservoir, China	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
			KP340975	Wang & Yue°	China	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
			LC517162–72	[14]	Shiga, Japan	–
		ITS2 + 28S	AF369758	[6]	Camargue, France [7]	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
		Kunitz protease inhibitor (serine)	MF346930	[18]	South Bohemia, Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
		Serine protease inhibitor (serpin)	MF288891	[19]	Mušov lowland reservoir, Czech Republic	<i>Eudiplozoon nipponicum</i> (Goto, 1891)
<i>Eudiplozoon nipponicum</i> (Goto, 1891)	<i>Carassius auratus</i> (Linnaeus, 1758)	COI	LC517173, LC517176–7	[14]	Shiga, Japan	<i>Carassius buergeri grandoculis</i> Temminck & Schlegel (nigorobuna)

		ITS2	LC496176–82, LC496187	[14]	Harie, Shin-asahi Town, Takashima City, Shiga, Japan	<i>Carassius buergeri</i> <i>grandoculis</i> Temminck & Schlegel (nigorobuna)
			LC496183–6, LC496188–90	[14]	Paddy field, Ohta, Shin- asahi Town, Takashima City, Shiga, Japan	<i>Carassius buergeri</i> <i>grandoculis</i> Temminck & Schlegel (nigorobuna)
	<i>Carassius langsdorfii</i> Temminck & Schlegel, 1846	ITS2	LC496174–5	[14]	Paddy field, Ohta, Shin- asahi Town, Takashima City, Shiga, Japan	<i>Carassius</i> sp. (ginbuna)
<i>Eudiplozoon</i> sp.	<i>Carassius auratus</i> (Linnaeus, 1758)	Mitogenome	MG458328	[20]	Tangxun Lake, Hubei Province, China	<i>Carassius auratus</i> complex Linnaeus, 1758
<i>Inustiatius inustiatius</i> (Nagibina, 1965)	<i>Hypophthalmichthys molitrix</i> (Valenciennes, 1844)	ITS2	DQ098893	[17]	Tangxun Lake, China	–
	<i>Hypophthalmichthys nobilis</i> (Richardson, 1845)	ITS2	DQ098894	[17]	Tangxun Lake, China	<i>Inustiatius aristichthysi</i> (Ling, 1973); <i>Aristichthys nobilis</i> (Richardson, 1845)
<i>Paradiplozoon aegyptense</i> (Fischthal & Kuntz, 1963)	<i>Schizopyge niger</i> (Heckel, 1838); <i>Carassius carassius</i> (Linnaeus, 1758)	ITS2 + 28S	AF973617^b	[2, 3]	Dal Lake, Kashmir Valley, India	<i>Diplozoon aegyptensis</i> Fischthal & Kuntz, 1963; <i>Schizothorax niger</i> Heckel, 1838
<i>Paradiplozoon barbi</i> (Reichenbach-Klinke, 1951)	–	ITS2	MN688771	Ibrahim & Yahaya ^c	Malaysia	–
<i>Paradiplozoon bingolense</i> Civáňová et al., 2013	<i>Garra rufa</i> (Heckel, 1843)	ITS2	HE653910	[21]	Göynük Stream, Ilicalar-Bingöl, Turkey	<i>Paradiplozoon bingolensis</i> Civáňová et al., 2013
<i>Paradiplozoon bliccae</i> (Reichenbach-Klinke, 1961)	<i>Squalius fellowesii</i> (Günther, 1868)	ITS2	LT560257	[22]	Doğanbaba Creek, Burdur, Turkey	–
	<i>Blicca bjoerkna</i> (Linnaeus, 1758)	ITS2	AJ300712	[16]	Morava River, Czech Republic	–

		ITS2 + 28S	AF369761	[6]	Scamandre pond, France [7]	<i>Diplozoon bliccae</i> Reichenbach-Klinke, 1961
<i>Paradiplozoon diplophyllorchidis</i> (Jiang et al., 1985)	<i>Zacco platypus</i> (Temminck & Schlegel, 1846)	ITS2	DQ098891	[17]	Danjiangkou Reservoir, China	<i>Paradiplozoon</i> <i>opsariichthydis</i> (Jiang et al., 1984)
<i>Paradiplozoon gracile</i> (Reichenbach-Klinke, 1961)	<i>Gobio acutipinnatus</i> Meñshikov, 1939	COI	KP399596	Wang & Yue ^c	China	–
		ITS2	KP340973	Wang & Yue ^c	China	–
<i>Paradiplozoon hemiculteri</i> (Ling, 1973)	<i>Hemiculter leucisculus</i> (Basilewsky, 1855)	18S	KY640614	Semi, Xi & Li ^c	Taihu Lake, Wuxi, China	–
		28S	MN545903	Zhang & Fan ^c	China	–
		ITS2	DQ098884	[17]	Bao'an Lake, China	–
			DQ098887	[17]	Tangxun Lake, China	–
			DQ098888	[17]	Danjiangkou Reservoir, China	–
			DQ098892	[17]	Hong Lake, China	–
			KY124645–54	[23]	Shaoguan, Guangdong Province, China	–
		18S + ITS1 + 5.8S + ITS2	KY290757–61	Xi, Buga & Li ^c	Wuxi, China	–
<i>Paradiplozoon homoion</i> (Bychowsky & Nagibina, 1959)	<i>Rutilus rutilus</i> (Linnaeus, 1758)	COI	KP399595	Wang & Yue ^c	China	–
		ITS2	KP340972	Wang & Yue ^c	China	–
			AJ300715	[16]	Morava River, Czech Republic	–
		ITS2 + 28S	AF369760	[6]	Scamandre pond, Camargue, France [7]	<i>Diplozoon homoion</i> Bychowsky & Nagibina, 1959
	<i>Rhodeus amarus</i> (Bloch, 1782)	ITS2	MT028131	Aydogdu ^c	Susurluk stream, Balikesir, Turkey	–
	<i>Phoxinus phoxinus</i> (Linnaeus, 1758)	ITS2	AJ300715	[16]	Morava River, Czech Republic	–

	<i>Scardinius erythrophthalmus</i> (Linnaeus, 1758)	ITS2 + 28S	AF369760	[6]	Scamandre pond, Camargue, France [7]	<i>Diplozoon homoion</i> Bychowsky & Nagibina, 1959
<i>Paradiplozoon ichthyoxanthon</i> Avenant-Oldewage 2014 in Avenant- Oldewage et al. 2014	<i>Labeobarbus aeneus</i> (Burchell, 1822)	COI	HF565162	[24]	Vaal River, South Africa	<i>Paradiplozoon sp.</i> ^f
		ITS2	HF566124	[24]	Vaal Dam and Vaal River, South Africa	–
<i>Paradiplozoon jiangxiense</i> (Jiang et al., 1985)	<i>Chanodichthys erythropterus</i> (Basilewsky, 1855)	ITS2	DQ098885	[17]	Tangxun Lake, China	<i>Paradiplozoon jiangxiensis</i> (Jiang et al., 1985)
						<i>Cultrichthys erythropterus</i> (Basilewsky, 1855)
<i>Paradiplozoon kashmirens</i> (Kaw, 1950)	<i>Cyprinus carpio</i> Linnaeus, 1758; <i>Schizopyge niger</i> (Heckel, 1838); <i>Schizothorax esocinus</i> Heckel, 1838; <i>Schizothorax curvifrons</i> Heckel, 1838; <i>Carassius carassius</i> (Linnaeus, 1758)	ITS2 + 28S	AF973616 ^b	[2, 3]	Dal Lake, Kashmir Valley, India	<i>Diplozoon kashmirensis</i> Kaw, 1950; <i>Schizothorax niger</i> Heckel, 1838; <i>Cyprinus carpio communis</i> Anonymous
	–	ITS2 + 28S	MF460994	Sofi & Ahmad ^c	Kashmir Valley, India	<i>Diplozoon kashmirensis</i> Kaw, 1950
<i>Paradiplozoon krugerense</i> Dos Santos & Avenant-Oldewage, 2016	<i>Labeo rosae</i> Steindachner, 1894	ITS2	LT574865	[25]	Flag Boshielo Dam, Limpopo, South Africa	–
<i>Paradiplozoon megan</i> (Bychowsky & Nagibina, 1959)	<i>Squalius cephalus</i> (Linnaeus, 1758)	ITS2	AJ300711	[16]	Morava River, Czech Republic	<i>Leuciscus cephalus</i> (Linnaeus, 1758)
<i>Paradiplozoon nagibinae</i> (Glaser, 1965)	<i>Ballerus ballerus</i> (Linnaeus, 1758)	ITS2	AJ563371	[5]	Kyjovka River, Czech Republic	<i>Abramis ballerus</i> (Linnaeus, 1758)
<i>Paradiplozoon opsariichthydis</i> (Jiang et al., 1984)	<i>Opsariichthys uncirostris</i> (Temminck & Schlegel, 1846)	ITS2	DQ098890	[17]	Danjiangkou Reservoir, China	–

			MH794184–8	Jirsova, Koubkova, Zhenjiang, Shaoguan, – Jirounkova, Vorel, China Ding, Gelnar & Kasny ^c	
		Mitogenome	MG458327	[20]	Danjiangkou, Hubei – Province, China
<i>Paradiplozoon parabramisi</i> (Ling, 1973)	<i>Parabramis pekinensis</i> (Basilewsky, 1855)	ITS2	DQ098883	[17]	Tangxun Lake, China –
			DQ098889	[17]	Hong Lake, China –
	<i>Megalobrama amblycephala</i> Yih, 1955	ITS2	DQ098886	[17]	Tangxun Lake, China –
<i>Paradiplozoon parapeleci</i> (Jiang et al., 1984)	<i>Pseudolaubuca sinensis</i> Bleeker, 1864	ITS2	DQ098882	[17]	Danjiangkou Reservoir, China <i>Parapelecus argenteus</i> Günther, 1889
<i>Paradiplozoon pavlovskii</i> (Bychowsky & Nagibina, 1959)	<i>Leuciscus aspius</i> (Linnaeus, 1758)	ITS2	AJ300714	[16]	Morava River, Czech Republic <i>Aspius aspius</i> (Linnaeus, 1758)
<i>Paradiplozoon sapae</i> (Reichenbach-Klinke, 1961)	<i>Ballerus sapa</i> (Pallas, 1814)	ITS2	AJ300713	[16]	Morava River, Czech Republic <i>Abramis sapa</i> (Pallas, 1814)
<i>Paradiplozoon skrjabini</i> (Akhmerov, 1974)	<i>Leuciscus baicalensis</i> (Dybowski, 1874)	ITS2	KP340974	Wang & Yue ^c	China
	<i>Leuciscus waleckii</i> (Dybowski, 1869)	ITS2	LC050528	[26]	Bolshaya Ussurka River, Primorsky Region, Russia –
	<i>Phoxinus steindachneri</i> Sauvage, 1883	ITS2	LC050524	[26]	Metoba River, Matsumoto City, Nagano, Japan –
	<i>Rhynchocypris lagowskii</i> (Dybowski, 1869)	ITS2	LC050529	[26]	Narva River, Primorsky Region, Russia –
	<i>Rhynchocypris oxycephalus</i> (Sauvage & Dabry de Thiersant, 1874)	ITS2	LC050525	[26]	Takami River, Kotsugawa, Nara, Japan <i>Phoxinus oxycephalus</i> (Sauvage & Dabry de Thiersant, 1874)
	<i>Tribolodon hakonensis</i> (Günther, 1877)	ITS2	LC050521	[26]	Ueda City, Nagano, Japan –

			LC050522	[26]	Sai River, Azumino City, Nagano, Japan	–
			LC050523	[26]	Tenryu River, Ina City, Nagano, Japan	–
			LC050527	[26]	Lake Abashiri, Abashiri City, Hokkaido, Japan	–
	<i>Tribolodon sachalinensis</i> (Nikolskii, 1889)	ITS2	LC050526	[26]	Lake Abashiri, Abashiri City, Hokkaido, Japan	–
<i>Paradiplozoon vaalense</i> Dos Santos et al. 2015	<i>Labeo umbratus</i> (Smith, 1841)	ITS2	HG423142	[27]	Vaal Dam and Vaal River, South Africa	–
<i>Paradiplozoon yunnanense</i> Fan et al., 2018	<i>Sikukia gudgeri</i> (Smith, 1934)	ITS2	MF775370	[28]	Jinghong Basin, Lancang-Mekong River, Yunnan, China	<i>Paradiplozoon yunnanensis</i> Fan et al., 2018
	<i>Sikukia stejnegeri</i> Smith, 1931	ITS2	MT336740	Zhang ^c	China	<i>Paradiplozoon yunnanensis</i>
	–	ITS2	KT781100	[29] ^d	China	<i>Paradiplozoon yunnanensis</i>
<i>Paradiplozoon</i> sp.	<i>Barilius barila</i> (Hamilton, 1822); <i>Barilius bendelisis</i> (Hamilton, 1807)	28S	KU519493	Chetry ^c	Arunachal Pradesh, India	–
<i>Paradiplozoon</i> sp.	–	ITS2	MN892630, MN892637–8	Kadirden & Cheng ^c	China ^f	–
<i>Paradiplozoon</i> sp.	–	ITS2	MN892631–6, MN892639	Arken & Yue ^c	China ^f	–
<i>Sindiplozoon ctenopharyngodoni</i> (Ling, 1973)	<i>Ctenopharyngodon idella</i> (Valenciennes, 1844)	ITS2	DQ098898	[17]	Tangxun Lake, China	–
<i>Sindiplozoon</i> sp.	<i>Spinibarbus hollandi</i> Oshima, 1919; <i>Parabramis pekinensis</i> (Basilewsky, 1855); <i>Mylopharyngodon piceus</i> (Richardson, 1846)	Mitogenome	MG458326	[20]	Mangtang stream, Hunan Province, China	–

^a Host names as given by FishBase [30].

^b Sequences from Ahmad et al. 2015 not available from online databases, only recorded in text.

^c Sequences are published to online databases but are not published in literature. Authors are given as cited online.

^d Publication only as a conference abstract.

^e Cysteine peptidases.

^f Designated following conclusions of the present study.

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