

Table S2 Relevant sequence information downloaded from GenBank in this study, with new sequences indicated in bold type.

Taxon	Strain	GenBank accession			
		Nuclear SSU	Nuclear LSU	Plastid SSU	Plastid LSU
<i>Colacium mucronatum</i>	Jjockji033107A	FJ719601	KT304893	FJ719645	FJ719710
<i>Colacium</i> sp.	Gungnamji122107J	KT304818	KT304895	KT305041	KT305125
<i>Colacium</i> sp.	MI2	KT304819	KT304896	KT305042	EF525390
<i>Strombomonas acuminata</i>	Heontang090509C	KT304844	KT304965	KT305080	KT305172
<i>Strombomonas balvayi</i>	cp1D	FJ719640	KT304970	FJ719698	FJ719739
<i>Strombomonas borystheniensis</i>	S10	DQ140131	KT304971	FJ719699	FJ719740
<i>Strombomonas borystheniensis</i>	SHNUQ6C2	OM720095	OM729580	OM719894	ON561218
<i>Strombomonas borystheniensis</i>	SHNUS11B5	ON561183	ON561148	ON561257	ON561219
<i>Strombomonas borystheniensis</i>	SHNUS14B6	ON561184	ON561149	ON561258	ON561220
<i>Strombomonas borystheniensis</i>	SHNUS33B5	ON561185	ON561150	ON561259	ON561221
<i>Strombomonas eurystoma</i>	S600	DQ140132	KT304974	FJ719701	FJ719742
<i>Strombomonas fluviatilis</i>	SHNUQ6B2	OM720092	OM729577	OM719890	ON561222
<i>Strombomonas fluviatilis</i>	SHNUS28B1	ON561186	ON561151	ON561260	ON561223
<i>Strombomonas gibberosa</i>	SHNUQ6A1	ON561187	OM729578	OM719891	ON561224
<i>Strombomonas maxima</i>	Hongseong080504	KT304847	KT304973	KT305083	EF525085
<i>Strombomonas maxima</i>	SHNUS6A3	OM720093	OM729576	OM719892	ON561225
<i>Strombomonas ovalis</i>	S115	DQ140133	KT304975	FJ719702	FJ719743
<i>Strombomonas ovalis</i>	SHNUS49C6	ON561188	ON561152	ON561261	ON561226
<i>Strombomonas</i> cf. <i>borystheniensis</i>	SHNUQ6C3	ON561189	ON561153	ON561262	ON561227
<i>Strombomonas triquetra</i>	S604	DQ140153	KT304978	FJ719703	FJ719744
<i>Strombomonas triquetra</i>	SHNUQ6A4	OM720094	OM729579	OM719893	ON561228

<i>Strombomonas verrucosa</i>	S5c	AF445461	KT304979	FJ719704	FJ719745
<i>Strombomonas verrucosa</i>	SHNUS28C1	ON561190	ON561154	ON561263	ON561229
<i>Trachelomonas abrupta</i>	NJ T801	DQ140134	KT304980	EU221507	EF525379
<i>Trachelomonas</i> sp.	SHNUS12C2	ON561192	ON561156	ON561265	ON561231
<i>Trachelomonas armata</i>	ACOI1323	EF999904	KT304981	EU221508	KT305176
<i>Trachelomonas armata</i>	SHNUS50B3	ON561193	ON561157	NONE	ON561232
<i>Trachelomonas</i> cf. <i>bacillifera</i> var. <i>minima</i>	SHNUQ4B2	ON561194	ON561158	ON561266	ON561233
<i>Trachelomonas bernardinensis</i>	ACOI 1103	FJ719641	KT304982	EU221509	FJ719746
<i>Trachelomonas bernardinensis</i>	SHNUWeijian	ON561195	NONE	ON561267	ON561234
<i>Trachelomonas cervicula</i>	SHNUS39D1	ON561217	ON561182	ON561289	ON561256
<i>Trachelomonas cingulata</i>	SAG1283-21	FJ719642	KT304983	FJ719705	EF525368
<i>Trachelomonas conradii</i>	UTEX1313	FJ719644	KT304984	FJ719709	FJ719748
<i>Trachelomonas</i> cf. <i>crebea</i>	SHNUS39B2	ON561196	ON561159	ON561268	ON561235
<i>Trachelomonas echinata</i>	SAG1283-22	AJ532444	KT304985	EU221510	EF525369
<i>Trachelomonas ellipsoidalis</i>	NJ T1	DQ140135	KT304986	EU221511	FJ719747
<i>Trachelomonas grandis</i>	SAG204.80	AJ532446	KT304987	EU221512	EF525382
<i>Trachelomonas hispida</i>	Jigock121309C	KT304850	KT304989	KT305086	KT305177
<i>Trachelomonas hispida</i>	UTEX539	FJ719643	KT304988	EU221513	EF525375
<i>Trachelomonas hispida</i>	SHNUQ1D6	ON561199	ON561162	ON561271	ON561238
<i>Trachelomonas intermedia</i>	SAG205.80	AY015002	KT304990	FJ719706	EF525366
<i>Trachelomonas</i> sp.	SHNUS26A3	ON561200	ON561163	ON561272	ON561239
<i>Trachelomonas</i> cf. <i>intermdia</i> var. <i>subinermis</i>	SHNUC4C3	ON561197	ON561160	ON561269	ON561236
<i>Trachelomonas</i> cf. <i>intermdia</i> var. <i>subinermis</i>	SHNUS17C3	ON561198	ON561161	ON561270	ON561237

<i>Trachelomonas lefevrei</i>	Bibong100404-5	KT304851	KT304992	KT305087	KT305178
<i>Trachelomonas lefevrei</i>	SHNUCC	MZ323679	ON561164	MZ323685	MZ328714
<i>Trachelomonas oblonga</i>	NJ T516	DQ140137	KT304994	EU221515	EF525370
<i>Trachelomonas pertyi</i>	Posudun091809D	KT304853	KT304995	NONE	KT305180
<i>Trachelomonas planctonica</i>	WT1	DQ140138	KT304996	EU221516	EF525380
<i>Trachelomonas planctonica</i> var. <i>oblonga</i>	SHNUS2C1	ON561201	ON561165	ON561273	ON561240
<i>Trachelomonas playfairii</i>	Kwoanam102007J	KT304854	KT305000	KT305089	KT305182
<i>Trachelomonas playfairii</i>	SHNUN14B1	ON561204	ON561168	ON561276	ON561243
<i>Trachelomonas rugulosa</i>	TS2	DQ140140	KT304997	EU221517	EF525383
<i>Trachelomonas scabra</i>	NJ T235	DQ140141	KT304998	EU221518	KT305181
<i>Trachelomonas similis</i>	SHNUS28C2	ON561202	ON561166	ON561274	ON561241
<i>Trachelomonas similis</i>	SHNUS41C3	ON561203	ON561167	ON561275	ON561242
<i>Trachelomonas</i> sp.	SHNUC2D	ON561205	ON561169	ON561277	ON561244
<i>Trachelomonas</i> sp.	SHNUS25D1	ON561191	ON561155	ON561264	ON561230
<i>Trachelomonas</i> sp.	SHNUS27B5	ON561209	ON561173	ON561281	ON561248
<i>Trachelomonas</i> sp	SHNUS28B5	ON561210	ON561174	ON561282	ON561249
<i>Trachelomonas</i> sp.	SHNUS4C3	ON561214	ON561178	ON561286	ON561253
<i>Trachelomonas</i> sp.	SHNUN16B5	ON561206	ON561170	ON561278	ON561245
<i>Trachelomonas</i> sp.	SHNUS11B6	ON561207	ON561171	ON561279	ON561246
<i>Trachelomonas</i> sp.	SHNUS24D1	ON561208	ON561172	ON561280	ON561247
<i>Trachelomonas</i> sp.	SHNUS36C1	ON561212	ON561176	ON561284	ON561251
<i>Trachelomonas</i> sp.	SHNUS30A1	ON561211	ON561175	ON561283	ON561250
<i>Trachelomonas</i> sp.	SHNUS40A5	ON561213	ON561177	ON561285	ON561252
<i>Trachelomonas subplanctonica</i>	SHNUS17C2	MZ323680	ON561179	MZ323687	MZ328716

<i>Trachelomonas</i> cf. <i>sydneyensis</i> var. <i>minima</i>	SHNUC1D1	ON561215	ON561180	ON561287	ON561254
<i>Trachelomonas undulaticollum</i>	SHNUS35D5	ON561216	ON561181	ON561288	ON561255
<i>Trachelomonas volvocina</i>	UTEX1327	KT304892	KT305039	EU221519	EF525373
<i>Trachelomonas volvocinopsis</i>	SAG1283-16	DQ140144	KT305040	EU221520	EF525372
<i>Trachelomonas zorensis</i>	UTEX1331	DQ140145	KT305037	EU221521	EF525371
