

Supplementary Materials

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Supplementary Table S1. *Haematococcus* and *Ettlia* taxa included in the various analyses conducted for this investigation

Species	Strain	Light microscopy	TEM	18S rRNA	26S rRNA	<i>rbcl</i>	ITS-1 rRNA	5.8S rRNA	ITS-2 rRNA
<i>Ettlia carotinosa</i>	SAG 213-4	-	-	GU292342	KR181935	OL695845	OL699989	OL739498	OL700013
<i>Haematococcus alpinus</i>	New Zealand	-	-	-	-	MF093733	MF093735	MF093735	MF093735
<i>Haematococcus lacustris</i>	SAG 34-1a	-	-	-	-	-	OL699991	OL739476	KC153468
	SAG 34-1b	-	-	AF159369	OL711901	-	OL699992	OL739477	KC153465
	SAG 34-1d	-	-	-	-	-	OL699993	OL739478	KC153467
	SAG 34-1e	-	-	-	-	-	OL699994	OL739479	KC153471
	SAG 34-1n	-	-	-	-	-	OL699995	OL739481	KC153458
	SAG 49.94	Yes	-	-	KC196734	-	OM568834	OL739482	KC153462
	NIES-144	Yes	-	-	OL711903	AB084336&7	KR914709	KR914709	-
	UTEX 16	-	-	-	DQ015727	-	OL699996	OL739475	KC153449
	UTEX 2205	-	-	-	-	OL695846	-	-	-
	BE03_02	-	-	-	-	KR914694	-	-	-
	BE07_12	-	-	-	-	KR914692	-	-	-
	BE07_14	-	-	-	-	KR914691	-	-	-
	BMK/16	-	-	-	-	-	MH191369	MH191369	MH191369
	BMM1/15	-	-	-	-	-	MH188834	MH188834	MH188834
	BMM2/15	-	-	-	-	-	MH188838	MH188838	MH188838
	Lin	-	-	-	KY364700	-	-	-	-
	KNUA041	-	-	MF992170	-	-	-	-	-
	France	-	-	LT578169	-	-	-	-	-
	India	-	-	KT285940	-	-	-	-	-
	Svalbard	-	-	KC986379	-	-	-	-	-
	Virginia	-	-	MG022689	-	-	-	-	-
	CCAP 34/7	-	-	MG022679	-	FJ438476	-	-	-
<i>Haematococcus privus</i>	HP036	-	-	OL689191	-	-	OL699999	OL739486	KC153431
	HP038	-	-	-	-	-	OL699998	OL739485	KC153433
	HP075	-	-	-	-	-	OL700000	OL739490	KC153469
	HP099	-	-	-	OL711909	-	OL700001	OL739484	KC153454
	HP136	Yes	Yes	OL689190	-	-	OL700002	OL739487	OL700014
	HP137	Yes	-	-	-	OL695847	OL700003	OL739489	OL700016
	HP138	Yes	-	OL689192	OL711908	OL695847	OL700004	OL739488	OL700015
<i>Haematococcus rubens</i>	SAG 34-1h	Yes	-	OL689188	OL711902	-	OL699997	OL739491	KC153442
<i>Haematococcus rubicundus</i>	BE05_11	-	-	-	-	KR914695	KR914735	KR914735	KR914735
	SAG 34-1c	Yes	-	OL689189	OL711906	-	OL700009	OL739495	KC153459
	SAG 34-1l	-	-	-	-	-	OL700010	OL739493	-
	SAG 34-1m	-	-	OL684958	OL711907	-	OL700011	OL739494	KC153470
	HP065	-	-	-	-	-	OL700005	OL739492	KC153434
	HP101	-	-	-	OL711904	-	-	-	-
	HP128	-	-	-	OL711905	-	OL700006	-	OL700019
	HP155A	-	-	-	-	-	OL700007	OL739497	OL700018
	HP163	-	-	-	-	-	OL700008	OL739496	OL700017
	BM7/13	-	-	-	-	-	-	-	MH188835
	BE04_06	-	-	-	-	KR914698	-	-	-
	BE04_09	-	-	-	-	KR914697	-	-	-
	BE05_06	-	-	-	-	KR914696	-	-	-
	BE08_12	-	-	-	-	KR914699	-	-	-
	CZ01_08	-	-	-	-	KR914703	-	-	-
	CZ01_09	-	-	-	-	KR914702	-	-	-
	NL01_04	-	-	-	-	KR914701	-	-	-
<i>Haematococcus</i> sp.	SAG 34-1f	-	-	OM534653	OL711910	-	OL700012	OL739480	KC153463
<i>Haematococcus</i> sp.	SAG 44.96	-	-	KC196725	KR181936	-	OL699990	OL739483	KC153464

Partial *rbcl* sequences for HP136 and HP137 were combined as a composite taxon / sequence (OL695847).

TEM, transmission electron microscopy; ITS, internal transcribed spacer.