

Kim Y.S. et al. Environmental Factors Associated with the Eukaryotic Microbial Community and Microalgal Groups in the Mountain Marshes of South Korea
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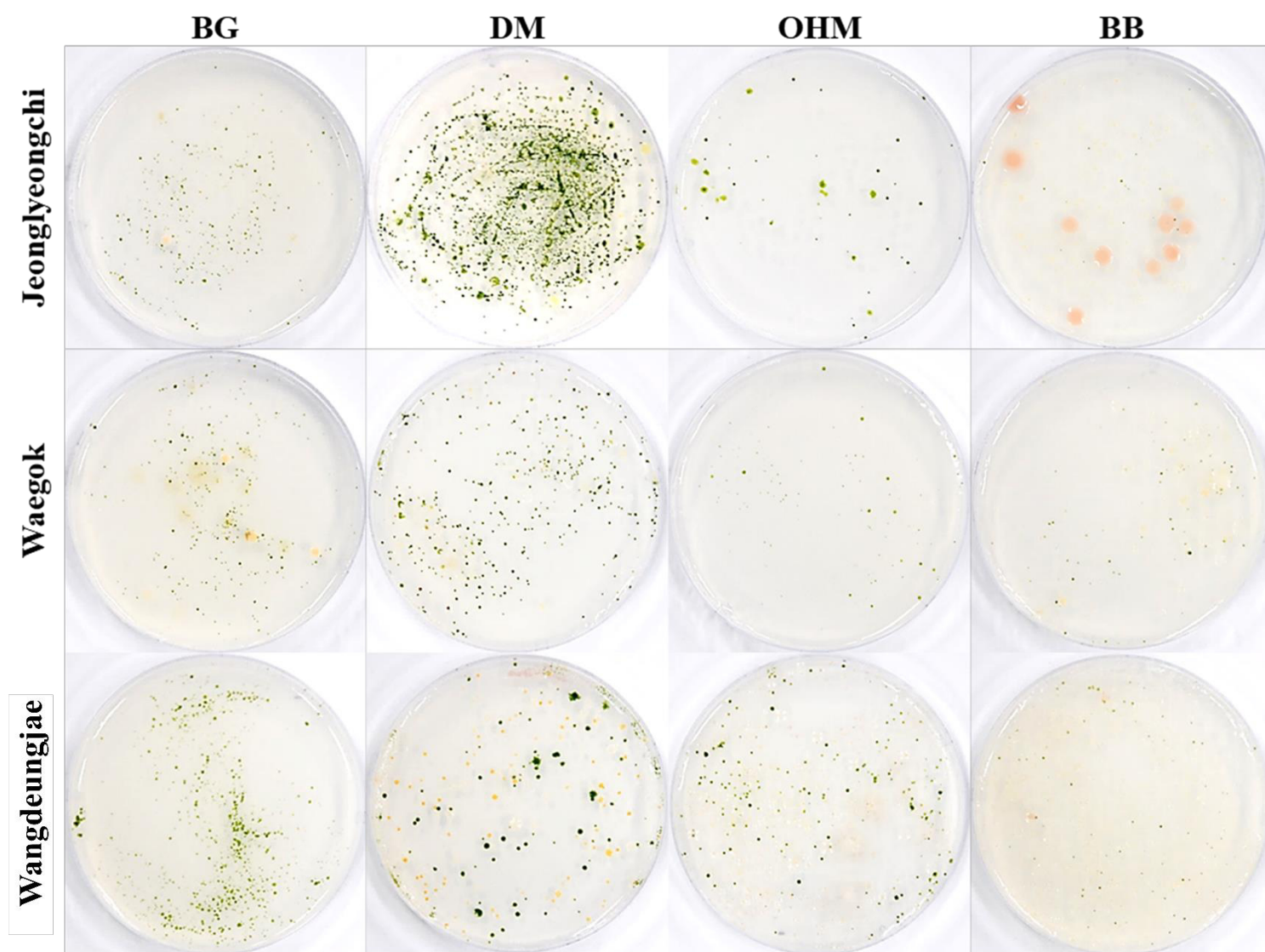


Fig. S1. Results of the spread plating experiment. A total of 10 μ l of diluted samples were inoculated into the following media: Blue Green-11 medium (BG11), Diatom medium (DM), Optimum *Haematococcus* medium (OHM), and Bold Basal medium (BB).

Table SI
BLAST sequence alignment output result using the sequencing results of Illumina Miseq.

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/ Total	Pct. (%)	Match/ Total	Pct. (%)	Query	Subject
Phagocata sibirica	419	1	418	99.76134	Phagocata sibirica 18S rRNA gene	Z99948.1	1759	546	963	23.7635	745	0	413/418	98	0/418	0	Plus	Plus
PREDICTED: Aedes	407	1	406	99.7543	PREDICTED: Aedes albopictus small subunit ribosomal RNA (LOC115262380), rRNA	XR_003895253.1	1785	563	974	23.08123	468	9.00E-128	367/419	87	20/419	4	Plus	Plus
Uncultured chrysophyte	407	1	407	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.2-53	AB749102.1	1660	452	858	24.51807	752	0	407/407	100	0/407	0	Plus	Plus
Chaetonotus cf.	407	1	407	100	Chaetonotus cf. similis TK106 18S ribosomal RNA gene, partial sequence	JQ798548.1	1689	513	920	24.15631	730	0	404/408	99	1/408	0	Plus	Plus
Spirostomum sp.	402	1	402	100	Spirostomum sp. SUAS-2016a strain SKS363 18S ribosomal RNA gene, partial sequence	KU848236.1	1670	484	885	24.07186	743	0	402/402	100	0/402	0	Plus	Plus
Uncultured Hydrurus	402	1	402	100	Uncultured Hydrurus sp. clone DDI157.fa small subunit ribosomal RNA gene, partial sequence	MK177621.1	1687	474	875	23.82928	632	3.00E-177	384/404	95	4/404	0	Plus	Plus
Stipa narynica	402	1	402	100	Stipa narynica voucher (KRA) S/74/1 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, internal transcribed spacer 2, and 26S ribosomal RNA gene, complete sequence; and 26S-18S ribosomal RNA intergenic spacer, partial sequence	KY826235.1	8844	569	970	4.545455	726	0	400/403	99	2/403	0	Plus	Plus
AF274257 Glenodiniopsis	402	1	402	100	AF274257 Glenodiniopsis steinii strain NIES 463 small subunit ribosomal RNA gene, complete sequence	AF274257.1	1756	544	946	22.94989	737	0	402/403	99	1/403	0	Plus	Plus
Aphanomyces cf.	402	1	402	100	Aphanomyces cf. repetans strain CBS 126887 18S ribosomal RNA gene, partial sequence	HQ384420.1	1039	507	908	38.69105	732	0	400/402	99	0/402	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Cercozoa sp.	402	1	402	100	Cercozoa sp. W36p59t2LS 18S ribosomal RNA gene, partial sequence	EU709153.1	1564	474	875	25.70332	732	0	400/402	99	0/402	0	Plus	Plus
Uncultured eukaryote	402	1	402	100	Uncultured eukaryote isolate P414 small subunit ribosomal RNA gene, partial sequence	MH008902.1	435	1	401	92.18391	564	1.00E-156	373/405	92	7/405	1	Plus	Plus
Uncultured chrysophyte	402	1	402	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Pa-St.4-14	AB749063.1	1716	460	861	23.42657	743	0	402/402	100	0/402	0	Plus	Plus
Rhizoclostratium globosum	402	1	402	100	Rhizoclostratium globosum strain JEL06 18S ribosomal RNA genes, partial sequence	AH009057.2	1736	501	899	22.98387	667	0	390/403	96	5/403	1	Plus	Plus
Paraphysomonas sp.	402	1	402	100	Paraphysomonas sp. BZ5b 18S ribosomal RNA gene, partial sequence	JQ967312.1	1666	478	879	24.12965	743	0	402/402	100	0/402	0	Plus	Plus
Glaucoma sp.	402	1	402	100	Glaucoma sp. Gnsf6 isolate 20881-1 small subunit ribosomal RNA gene, partial sequence; macronuclear	KY218622.1	838	371	772	47.97136	743	0	402/402	100	0/402	0	Plus	Plus
Uncultured eukaryotic	402	1	402	100	Uncultured eukaryotic picoplankton clone P34.6 18S ribosomal RNA gene, partial sequence	AY642710.1	1346	552	955	30.01486	651	0	389/406	95	6/406	1	Plus	Plus
Uncultured stramenopile	402	1	402	100	Uncultured stramenopile clone BT_Euk_D11 18S ribosomal RNA gene, partial sequence	KC306530.1	1181	544	945	34.03895	743	0	402/402	100	0/402	0	Plus	Plus
Hygrobates norvegicus	402	1	402	100	Hygrobates norvegicus voucher MNHN-JAC66 18S ribosomal RNA gene, partial sequence	JN018223.1	1727	536	938	23.33526	693	0	396/405	97	5/405	1	Plus	Plus
Oligohymenophorea sp.	402	1	401	99.75124	Oligohymenophorea sp. bLPN1 partial 18S rRNA gene, isolate bLPN1 Oligohymenophorean	LN870015.1	1711	538	938	23.43659	736	0	400/401	99	0/401	0	Plus	Plus
Obelidium mucronatum	402	1	402	100	Obelidium mucronatum strain JEL57 18S ribosomal RNA genes, partial sequence	AH009056.2	1747	516	917	23.01088	715	0	397/402	98	0/402	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
AF274257 Glenodiniopsis	400	1	400	100	AF274257 Glenodiniopsis steinii strain NIES 463 small subunit ribosomal RNA gene, complete sequence	AF274257.1	1756	544	962	23.86105	617	8.00E-173	394/419	94	19/419	4	Plus	Plus
Rhizophydium sphaerotheca	400	1	400	100	Rhizophydium sphaerotheca 18S ribosomal RNA gene, partial sequence	KJ464411.1	914	448	847	43.76368	667	0	387/400	96	0/400	0	Plus	Plus
PREDICTED: Populus	400	1	400	100	PREDICTED: Populus trichocarpa 18S ribosomal RNA (LOC112328551), rRNA	XR_002983567.1	1808	568	967	22.12389	734	0	399/400	99	0/400	0	Plus	Plus
Eimeria sp.	400	1	400	100	Eimeria sp. clone SCT1A small subunit ribosomal RNA gene, partial sequence	MK909931.1	1039	123	522	38.49856	662	0	387/401	96	2/401	0	Plus	Plus
Chrysophyceae sp.	400	1	400	100	Chrysophyceae sp. EK-2010a 18S ribosomal RNA gene, partial sequence	FJ971855.1	1724	520	920	23.25986	734	0	400/401	99	1/401	0	Plus	Plus
Cryptosporidiidae environmental	400	1	400	100	Cryptosporidiidae environmental sample clone Elev_18S_1508 18S ribosomal RNA gene, partial sequence	EF024963.1	1761	551	950	22.71437	689	0	391/400	97	0/400	0	Plus	Plus
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.8-63	AB749110.1	1663	454	853	24.05292	739	0	400/400	100	0/400	0	Plus	Plus
Cyclidium glaucoma	400	1	400	100	Cyclidium glaucoma isolate ES24 18S ribosomal RNA gene, partial sequence	DQ442840.1	884	325	724	45.24887	739	0	400/400	100	0/400	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1270 18S ribosomal RNA gene, partial sequence	EF023658.1	1802	556	952	22.03108	497	1.00E-136	368/411	89	25/411	6	Plus	Plus
Stramenopile sp.	400	1	400	100	Stramenopile sp. MAST-12 KKTS_D3 18S ribosomal RNA gene, partial sequence	EF219381.1	2004	484	883	19.96008	728	0	398/400	99	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04IIWN7 18S ribosomal RNA gene, partial sequence	GU922518.1	479	63	463	83.71608	712	0	397/402	98	3/402	0	Plus	Plus
Nowakowskiella multispora	400	1	400	100	Nowakowskiella multispora voucher CCIBt 3864 small subunit ribosomal RNA gene, partial sequence	MH590089.1	986	459	858	40.56795	701	0	393/400	98	0/400	0	Plus	Plus
Uncultured chrysophyte	400	60	400	85.25	Uncultured chrysophyte partial 18S rRNA gene, clone PC04.D4_Pla_1	HE655360.1	941	1	341	36.23804	630	1.00E-176	341/341	100	0/341	0	Plus	Plus
Gonostomum sp.	400	1	400	100	Gonostomum sp. MD-2012 small subunit ribosomal RNA gene, partial sequence; macronuclear	JQ723970.1	1726	537	936	23.17497	734	0	399/400	99	0/400	0	Plus	Plus
Persicaria virginiana	400	1	400	100	Persicaria virginiana 18S ribosomal RNA gene, partial sequence	HQ843436.1	1498	468	866	26.63551	726	0	398/400	99	1/400	0	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone PA2009A3 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	HQ191313.1	2259	522	921	17.70695	606	2.00E-169	381/405	94	10/405	2	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan gene for 18S ribosomal RNA, partial sequence, clone: Re-St.6-45	AB749094.1	1684	469	868	23.75297	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured oligohymenophorid	400	1	400	100	Uncultured oligohymenophorid ciliate clone CV1_2A_17 small subunit ribosomal RNA gene, partial sequence	AY821923.1	1580	455	854	25.31646	684	0	390/400	97	0/400	0	Plus	Plus
Uncultured Micronuclearia	400	1	400	100	Uncultured Micronuclearia sp. clone DDI50.fa small subunit ribosomal RNA gene, partial sequence	MK177607.1	1711	484	888	23.67037	616	3.00E-172	384/407	94	9/407	2	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Rhogostoma cylindrica	400	1	400	100	Rhogostoma cylindrica isolate KD1020 18S ribosomal RNA gene, partial sequence	KY905096.1	1635	502	901	24.46483	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone GA107 18S ribosomal RNA gene, partial sequence	HM487011.1	1352	247	646	29.5858	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured Trinematidae	400	1	400	100	Uncultured Trinematidae clone Ci1_9 18S ribosomal RNA gene, partial sequence	KT272565.1	1066	412	811	37.52345	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured microeukaryote	400	1	400	100	Uncultured microeukaryote clone 227Feb24_07D 18S ribosomal RNA gene, partial sequence	JN705510.1	1065	183	582	37.55869	739	0	400/400	100	0/400	0	Plus	Plus
Uebelmesseromyces sp.	400	10	400	97.75	Uebelmesseromyces sp. isolate TXST042 small subunit ribosomal RNA gene, partial sequence	MG979838.1	839	1	391	46.6031	689	0	386/392	98	2/392	0	Plus	Plus
Micronuclearia podoventralis	400	1	400	100	Micronuclearia podoventralis small subunit ribosomal RNA gene, partial sequence	AY268038.1	1731	526	925	23.10803	739	0	400/400	100	0/400	0	Plus	Plus
Cyphoderia ampulla	400	1	400	100	Cyphoderia ampulla isolate Cape Breton 1 small subunit ribosomal RNA gene, partial sequence	GU228889.1	1731	491	890	23.10803	662	0	386/400	96	0/400	0	Plus	Plus
Uncultured eukaryote	400	21	382	90.5	Uncultured eukaryote isolate OTU807 small subunit ribosomal RNA gene, partial sequence	MK351167.1	361	1	361	100	617	8.00E-173	353/362	97	1/362	0	Plus	Plus
Thozetella pandanicola	400	1	400	100	Thozetella pandanicola voucher MFLUCC 16-0253 18S small subunit ribosomal RNA gene, partial sequence	MH388330.1	956	506	905	41.841	739	0	400/400	100	0/400	0	Plus	Plus
Chrysophyceae sp.	400	1	400	100	Chrysophyceae sp. strain PR34KL 18S ribosomal RNA gene, partial sequence	KX100594.1	1483	429	826	26.83749	571	7.00E-159	372/402	92	6/402	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone D09_SE4A 18S ribosomal RNA gene, partial sequence	FJ592423.1	1090	4	404	36.78899	717	0	398/402	99	3/402	0	Plus	Plus
Dero sp.	400	1	400	100	Dero sp. n. CB-2019 isolate HK1 small subunit ribosomal RNA gene, partial sequence	MN215422.1	1774	556	955	22.54791	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured microeukaryote	400	1	400	100	Uncultured microeukaryote clone 227Jun21_05G 18S ribosomal RNA gene, partial sequence	JN705517.1	1368	183	582	29.23977	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured Bryometopida	400	1	400	100	Uncultured Bryometopida clone PRS3_4E_35 18S ribosomal RNA gene, partial sequence	GU479974.1	1426	437	835	27.98036	715	0	396/400	99	1/400	0	Plus	Plus
Chytriomycetes sp.	400	1	400	100	Chytriomycetes sp. WB235A isolate AFTOL-ID 1536 18S small subunit ribosomal RNA gene, partial sequence	DQ536486.1	1733	499	898	23.08136	673	0	388/400	97	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P414 small subunit ribosomal RNA gene, partial sequence	MH008902.1	435	1	399	91.72414	544	1.00E-150	368/403	91	7/403	1	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU536 small subunit ribosomal RNA gene, partial sequence	MK350896.1	398	1	380	95.47739	675	0	375/380	98	0/380	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AS_N_2012Dec_94	AB902023.1	1821	567	966	21.96595	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured Glissomonadida	400	1	400	100	Uncultured Glissomonadida clone Fr_At_23 18S ribosomal RNA gene, partial sequence	KT251146.1	1092	452	851	36.63004	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone 07A_Kili_18S_N8_Add 18S ribosomal RNA gene, partial sequence	KX772158.1	1756	551	951	22.83599	678	0	390/401	97	1/401	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone SLV_3GM2_44 18S ribosomal RNA gene, partial sequence	KT072161.1	1665	574	973	24.02402	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured microeukaryote	400	1	400	100	Uncultured microeukaryote clone 229Jun21_03A 18S ribosomal RNA gene, partial sequence	JN705488.1	1066	184	583	37.52345	717	0	396/400	99	0/400	0	Plus	Plus
Blastulidium paedophthorum	400	1	399	99.75	Blastulidium paedophthorum isolate 37 18S ribosomal RNA gene, partial sequence	KR869808.1	865	461	865	46.82081	676	0	393/405	97	6/405	1	Plus	Plus
Uncultured metazoan	400	1	400	100	Uncultured metazoan clone Alchichica_AQ2w_5E_13 small subunit ribosomal RNA gene, partial sequence	JN825699.1	1555	446	846	25.78778	717	0	397/401	99	1/401	0	Plus	Plus
Uncultured microeukaryote	400	1	400	100	Uncultured microeukaryote clone 227Jun21_12F 18S ribosomal RNA gene, partial sequence	JN705523.1	1381	184	584	29.03693	662	0	388/402	96	3/402	0	Plus	Plus
Cyclidium glaucoma	400	1	400	100	Cyclidium glaucoma isolate ES45 18S ribosomal RNA gene, partial sequence	DQ442860.1	805	323	722	49.68944	739	0	400/400	100	0/400	0	Plus	Plus
Cymbella aspera	400	1	400	100	Cymbella aspera strain FD272 18S ribosomal RNA gene, partial sequence	KJ011615.1	1716	538	937	23.31002	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured Cryptomonadaceae	400	1	400	100	Uncultured Cryptomonadaceae gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.4-86	AB749135.1	1860	460	859	21.50538	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AD_Mclone35	LC109003.1	1776	556	960	22.80405	532	3.00E-147	371/409	90	13/409	3	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Cryptosporidiidae environmental	400	1	400	100	Cryptosporidiidae environmental sample clone Elev_18S_1508 18S ribosomal RNA gene, partial sequence	EF024963.1	1761	551	950	22.71437	673	0	389/401	97	2/401	0	Plus	Plus
Heterocapsaceae environmental	400	1	400	100	Heterocapsaceae environmental sample clone Elev_18S_1214 18S ribosomal RNA gene, partial sequence	EF024723.1	1773	552	951	22.56063	684	0	393/403	97	6/403	1	Plus	Plus
Surirella brebissonii	400	1	400	100	Surirella brebissonii isolate CCMP2912 18S ribosomal RNA gene, partial sequence	KX120739.1	1721	537	936	23.2423	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured Euglyphidae	400	1	400	100	Uncultured Euglyphidae clone Md1_42 18S ribosomal RNA gene, partial sequence	KT272460.1	1069	415	814	37.41815	695	0	392/400	98	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone RT5iin4 18S ribosomal RNA gene, complete sequence	AY082993.1	1825	574	973	21.91781	662	0	387/401	96	2/401	0	Plus	Plus
Uncultured Chrysophyceae	400	1	400	100	Uncultured Chrysophyceae clone CV1_B1_76 small subunit ribosomal RNA gene, partial sequence	AY821972.1	1582	442	841	25.28445	723	0	397/400	99	0/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: F7_2010	AB721069.1	1686	503	903	23.7841	556	2.00E-154	373/406	91	11/406	2	Plus	Plus
Cyclidium glaucoma	400	1	400	100	Cyclidium glaucoma isolate ES24 18S ribosomal RNA gene, partial sequence	DQ442840.1	884	325	724	45.24887	634	8.00E-178	382/401	95	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone EFeRe3649 18S ribosomal RNA gene, partial sequence	FJ810599.1	1244	184	583	32.15434	640	2.00E-179	383/401	95	2/401	0	Plus	Plus
Cryptomonas ovata	400	1	400	100	Cryptomonas ovata voucher HB2011-3ov 18S ribosomal RNA gene, partial sequence	KC928317.1	1662	488	887	24.06739	739	0	400/400	100	0/400	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Hemigastrostyla sp.	400	1	400	100	Hemigastrostyla sp. JJM2008102201 small subunit ribosomal RNA gene, complete sequence	FJ870092.1	1764	555	955	22.73243	568	9.00E-158	374/405	92	9/405	2	Plus	Plus
Oxytricha granulifera	400	1	400	100	Oxytricha granulifera isolate Tibet 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	MG836537.1	3912	430	829	10.22495	739	0	400/400	100	0/400	0	Plus	Plus
Aulacoseira sp.	400	1	400	100	Aulacoseira sp. ODR3 18S ribosomal RNA gene, partial sequence	AY569587.1	1615	473	872	24.7678	689	0	391/400	97	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone 274C07 small subunit ribosomal RNA gene, partial sequence	KJ925320.1	1502	504	903	26.63116	739	0	400/400	100	0/400	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1017 18S ribosomal RNA gene, partial sequence	EF023442.1	1807	554	950	21.97012	514	1.00E-141	368/408	90	19/408	4	Plus	Plus
Uncultured Hydrurus	400	1	400	100	Uncultured Hydrurus sp. clone DDI157.fa small subunit ribosomal RNA gene, partial sequence	MK177621.1	1687	474	873	23.71073	662	0	388/402	96	4/402	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone S5-8 18S ribosomal RNA gene, partial sequence	JN547311.1	949	516	917	42.36038	503	2.00E-138	363/406	89	10/406	2	Plus	Plus
Uncultured eukaryote	400	21	398	94.5	Uncultured eukaryote isolate OTU631 small subunit ribosomal RNA gene, partial sequence	MK350991.1	378	1	378	100	671	0	374/379	98	2/379	0	Plus	Plus
Uncultured microeukaryote	400	1	400	100	Uncultured microeukaryote clone 229Feb24_11F 18S ribosomal RNA gene, partial sequence	JN705531.1	1314	182	581	30.4414	595	4.00E-166	374/400	93	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Tabellaria flocculosa	400	1	400	100	Tabellaria flocculosa isolate HYU-D009 small subunit ribosomal RNA gene, partial sequence	MH356258.1	1621	446	845	24.67613	712	0	395/400	98	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04IDE5J 18S ribosomal RNA gene, partial sequence	GU923111.1	543	114	513	73.66483	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone C06_SE1A 18S ribosomal RNA gene, partial sequence	FJ592329.1	1123	4	403	35.61888	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured Cryptomonadaceae	400	1	400	100	Uncultured Cryptomonadaceae gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.4-86	AB749135.1	1860	460	863	21.72043	593	1.00E-165	378/405	93	6/405	1	Plus	Plus
Chytridiales sp.	400	1	400	100	Chytridiales sp. JEL187 isolate AFTOL-ID 39 18S ribosomal RNA gene, partial sequence	AY635825.1	1786	543	942	22.39642	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AD_Mclone35	LC109003.1	1776	556	956	22.57883	645	0	387/404	95	7/404	1	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: DW7_2010	AB721020.1	1669	507	889	22.94787	512	4.00E-141	365/403	90	23/403	5	Plus	Plus
Cymboplectra naviculiformis	400	1	400	100	Cymboplectra naviculiformis 18S rRNA gene, strain AT-221.02	AM501997.1	1732	531	930	23.09469	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AD_Mclone35	LC109003.1	1776	556	957	22.63514	486	2.00E-133	363/409	88	16/409	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P414 small subunit ribosomal RNA gene, partial sequence	MH008902.1	435	1	401	92.18391	496	4.00E-136	366/410	89	19/410	4	Plus	Plus
Uncultured eukaryotic	400	1	400	100	Uncultured eukaryotic picoplankton clone P34.28 18S ribosomal RNA gene, partial sequence	AY642697.1	1776	550	949	22.52252	728	0	398/400	99	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Stenostomum sp.	400	1	400	100	Stenostomum sp. 'bigmouth' 18S ribosomal RNA gene, partial sequence	FJ196330.1	1719	515	914	23.26934	734	0	399/400	99	0/400	0	Plus	Plus
Rhizaspis sp.	400	1	400	100	Rhizaspis sp. KD-2018a 18S ribosomal RNA gene, partial sequence	KX580628.1	1665	499	898	24.02402	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured Cryptomonadaceae	400	1	400	100	Uncultured Cryptomonadaceae gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.4-86	AB749135.1	1860	460	863	21.72043	604	7.00E-169	382/407	93	10/407	2	Plus	Plus
Pinnularia microstauron	400	1	400	100	Pinnularia microstauron 18S rRNA gene, strain AT-69.06	AM501981.1	1737	532	931	23.02821	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU319 small subunit ribosomal RNA gene, partial sequence	MK350679.1	397	1	380	95.71788	647	0	370/380	97	0/380	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1017 18S ribosomal RNA gene, partial sequence	EF023442.1	1807	554	950	21.97012	508	5.00E-140	369/410	90	23/410	5	Plus	Plus
Uncultured Oomycetes	400	1	400	100	Uncultured Oomycetes clone FW_21 small subunit ribosomal RNA gene, partial sequence	MH040884.1	710	256	647	55.21127	388	7.00E-104	354/416	85	40/416	9	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone DDI123.fa small subunit ribosomal RNA gene, partial sequence	MK177617.1	1710	483	882	23.39181	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone i735 small subunit ribosomal RNA gene, partial sequence	MK946109.1	1024	557	949	38.37891	416	3.00E-112	353/410	86	27/410	6	Plus	Plus
Gomphonema affine	400	1	400	100	Gomphonema affine isolate HYU-D048 small subunit ribosomal RNA gene, partial sequence	MN197879.1	1670	504	903	23.9521	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone 384-SC21 18S ribosomal RNA gene, partial sequence	EF586186.1	751	248	648	53.39547	734	0	400/401	99	1/401	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Protoachlya paradoxa	400	1	400	100	Protoachlya paradoxa strain CBS 261.38 18S ribosomal RNA gene, partial sequence	KP098375.1	1607	432	831	24.8911	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured stramenopile	400	1	400	100	Uncultured stramenopile clone BT_Euk_F6 18S ribosomal RNA gene, partial sequence	KC306524.1	1192	551	950	33.55705	734	0	399/400	99	0/400	0	Plus	Plus
Nowakowskiella hemisphaerospora	400	1	400	100	Nowakowskiella hemisphaerospora voucher GHJ13 small subunit ribosomal RNA gene, partial sequence	MH590088.1	1064	518	918	37.68797	734	0	400/401	99	1/401	0	Plus	Plus
uncultured ciliate	400	1	400	100	uncultured ciliate genomic DNA sequence contains 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, isolate 3ZS18	LR025746.1	2832	488	888	14.1596	634	8.00E-178	384/403	95	5/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1147 small subunit ribosomal RNA gene, partial sequence	MH009635.1	431	1	403	93.50348	470	2.00E-128	363/412	88	21/412	5	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Ch8A2mF5 18S ribosomal RNA gene, partial sequence	JF730785.1	1687	503	902	23.71073	634	8.00E-178	382/401	95	2/401	0	Plus	Plus
Uncultured Spongomonas	400	1	400	100	Uncultured Spongomonas clone Due_At_b19 18S ribosomal RNA gene, partial sequence	KT251067.1	1092	464	863	36.63004	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured freshwater	400	1	399	99.75	Uncultured freshwater eukaryote clone LG07-03 18S ribosomal RNA gene, partial sequence	AY919701.1	1735	530	934	23.34294	527	1.00E-145	372/411	90	18/411	4	Plus	Plus
Uncultured stramenopile	400	1	400	100	Uncultured stramenopile clone AY2009C15 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	HQ219364.1	2630	527	924	15.13308	571	7.00E-159	375/405	92	12/405	2	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Glissomonad sp.	400	1	400	100	Glissomonad sp. Panama103 18S ribosomal RNA gene, partial sequence	EU709272.1	1833	440	839	21.82215	662	0	388/402	96	4/402	0	Plus	Plus
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.3-56	AB749105.1	1665	455	854	24.02402	673	0	389/401	97	2/401	0	Plus	Plus
Uncultured metazoan	400	1	400	100	Uncultured metazoan clone cher4_1E_142 small subunit ribosomal RNA gene, partial sequence	JN020245.1	1649	440	839	24.25713	701	0	393/400	98	0/400	0	Plus	Plus
Uncultured Closterium	400	1	400	100	Uncultured Closterium clone G3 small subunit ribosomal RNA gene, partial sequence	MG969939.1	1681	505	881	22.42713	457	2.00E-124	358/405	88	33/405	8	Plus	Plus
Athalamea environmental	400	1	400	100	Athalamea environmental sample clone Amb_18S_1145 18S ribosomal RNA gene, partial sequence	EF023543.1	1855	566	965	21.56334	656	0	387/402	96	4/402	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone GA114 18S ribosomal RNA gene, partial sequence	HM486973.1	1358	247	646	29.45508	739	0	400/400	100	0/400	0	Plus	Plus
Lagenidium giganteum	400	1	400	100	Lagenidium giganteum f. caninum isolate E06-SP63 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	KT257365.1	3981	533	932	10.04773	739	0	400/400	100	0/400	0	Plus	Plus
Neocercomonas sp.	400	1	400	100	Neocercomonas sp. strain SF18_R_Poa small subunit ribosomal RNA gene, partial sequence	MG775616.1	1425	520	919	28.07018	706	0	394/400	98	0/400	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone mixed17 18S ribosomal RNA gene, partial sequence	EU199971.1	609	164	563	65.68144	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Thaumatomastigidae sp.	400	1	400	100	Thaumatomastigidae sp. 1 JMS-2012 18S ribosomal RNA gene, partial sequence	KC243116.1	1692	491	881	23.10875	431	1.00E-116	352/406	86	21/406	5	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AS_N_2012Dec_12	AB901953.1	1818	569	968	22.0022	734	0	399/400	99	0/400	0	Plus	Plus
Cystofilobasidium macerans	400	1	400	100	Cystofilobasidium macerans CBS 10757 18S rRNA gene, partial sequence; from TYPE material	NG_062967.1	1656	497	896	24.15459	739	0	400/400	100	0/400	0	Plus	Plus
Pinnularia subgibba	400	1	400	100	Pinnularia subgibba isolate TCC608 18S ribosomal RNA gene, partial sequence	KT072984.1	1690	507	906	23.66864	667	0	387/400	96	0/400	0	Plus	Plus
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.12-96	AB749145.1	1698	458	851	23.20377	628	4.00E-176	384/403	95	12/403	2	Plus	Plus
Uncultured Micronuclearia	400	1	400	100	Uncultured Micronuclearia sp. clone DDI50.fa small subunit ribosomal RNA gene, partial sequence	MK177607.1	1711	484	884	23.43659	673	0	391/403	97	5/403	1	Plus	Plus
Uncultured MAST-12	400	1	400	100	Uncultured MAST-12 related heterokont clone PRS2_4E_2 18S ribosomal RNA gene, partial sequence	GQ330588.1	1452	438	837	27.54821	723	0	397/400	99	0/400	0	Plus	Plus
Paracercomonas filosa	400	1	400	100	Paracercomonas filosa strain 17-1F 18S ribosomal RNA gene, partial sequence	FJ790722.1	1722	480	879	23.2288	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone 21c_59406 18S ribosomal RNA gene, partial sequence	KT817645.1	412	1	377	91.50485	418	9.00E-113	336/386	87	20/386	5	Plus	Plus
Chromophyton cf.	400	1	400	100	Chromophyton cf. rosanoffii strain CCMP2753 18S ribosomal RNA gene, partial sequence	EF165107.1	1736	532	931	23.04147	529	4.00E-146	365/403	90	6/403	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Micropsectra sp.	400	1	400	100	Micropsectra sp. 1 SRM-2010 voucher MICROP 18S ribosomal RNA gene, partial sequence	HQ440621.1	886	111	514	45.59819	704	0	397/404	98	4/404	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AOan_H_2012Dec_123	AB901553.1	1811	567	966	22.08724	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, partial sequence, clone: AS_seed_24	LC150071.1	1742	532	931	22.96211	739	0	400/400	100	0/400	0	Plus	Plus
Spumella sp.	400	1	400	100	Spumella sp. isolate BW2S small subunit ribosomal RNA gene, partial sequence	MF682189.1	1690	473	872	23.66864	739	0	400/400	100	0/400	0	Plus	Plus
Arcella gibbosa	400	1	400	100	Arcella gibbosa isolate DL3_64 small subunit ribosomal RNA gene, partial sequence	JF694278.1	1731	531	930	23.10803	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured ciliate	400	1	390	97.5	Uncultured ciliate clone TiePCII_18 18S ribosomal RNA gene, partial sequence	KC513790.1	663	239	628	58.82353	665	0	380/390	97	0/390	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate AH52p125 18S ribosomal RNA gene, partial sequence	EU709136.1	1163	485	884	34.39381	734	0	399/400	99	0/400	0	Plus	Plus
Closterium moniliferum	400	1	400	100	Closterium moniliferum var. moniliferum 84-21-14 18S ribosomal RNA gene, complete sequence	AF352222.1	2260	572	971	17.69912	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone EFeRe3649 18S ribosomal RNA gene, partial sequence	FJ810599.1	1244	184	583	32.15434	623	2.00E-174	381/402	94	4/402	0	Plus	Plus
Chrysocapsa paludosa	400	1	400	100	Chrysocapsa paludosa strain CCMP380 18S ribosomal RNA gene, partial sequence	EF165145.1	1730	530	929	23.12139	723	0	397/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote 18S rRNA, partial sequence, clone: RM2-SGM63	AB505571.1	1741	516	916	23.03274	446	4.00E-121	355/408	87	15/408	3	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU511 small subunit ribosomal RNA gene, partial sequence	MK350871.1	392	1	379	96.68367	628	4.00E-176	370/383	96	7/383	1	Plus	Plus
Uncultured eukaryote	400	26	392	91.75	Uncultured eukaryote clone A7_21752 18S ribosomal RNA gene, partial sequence	KT818106.1	367	1	367	100	640	2.00E-179	362/369	98	4/369	1	Plus	Plus
Uncultured alveolate	400	1	400	100	Uncultured alveolate clone STFeb_278 18S ribosomal RNA gene, partial sequence	HM135061.1	1664	501	896	23.79808	643	1.00E-180	383/400	95	4/400	1	Plus	Plus
Uncultured eukaryotic	400	1	400	100	Uncultured eukaryotic picoplankton clone P34.27 18S ribosomal RNA gene, partial sequence	AY642695.1	1782	559	958	22.44669	723	0	397/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: ABC2_H06	AB572139.1	676	140	538	59.02367	394	2.00E-105	352/414	85	29/414	7	Plus	Plus
Lembadion lucens	400	1	400	100	Lembadion lucens isolate QZS2013102408 small subunit ribosomal RNA gene, partial sequence	MF072398.1	1649	489	888	24.25713	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone ML2_dino18S-56 18S small subunit ribosomal RNA gene, partial sequence	GU647194.1	1533	345	744	26.09263	689	0	392/401	97	2/401	0	Plus	Plus
Heteromita sp.	400	1	400	100	Heteromita sp. HFCC 924 18S ribosomal RNA gene, partial sequence	HM536169.1	2182	554	953	18.33181	739	0	400/400	100	0/400	0	Plus	Plus
Schoutedamoeba minuta	400	1	400	100	Schoutedamoeba minuta strain A1P5ZHB clone 3 small subunit ribosomal RNA gene, partial sequence	KP719190.1	1878	561	960	21.29925	689	0	392/401	97	2/401	0	Plus	Plus
Eumonhystera cf.	400	1	400	100	Eumonhystera cf. similis JH-2004 isolate EumoSMLZ 18S small subunit ribosomal RNA gene, partial sequence	AY284691.1	1202	17	416	33.27787	701	0	393/401	98	2/401	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU678 small subunit ribosomal RNA gene, partial sequence	MK351038.1	390	1	379	97.17949	490	2.00E-134	348/386	90	13/386	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone QCCC1ZA121 18S ribosomal RNA gene, partial sequence	KY355559.1	1064	180	579	37.59398	717	0	396/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone BOLA868 small subunit ribosomal RNA gene, partial sequence	AF372795.1	1605	511	908	24.79751	643	1.00E-180	386/403	95	8/403	1	Plus	Plus
Eunotia sp.	400	1	400	100	Eunotia sp. 44 18S ribosomal RNA gene, partial sequence	KJ961696.1	1784	550	949	22.42152	739	0	400/400	100	0/400	0	Plus	Plus
Aulacoseira alpigena	400	1	400	100	Aulacoseira alpigena strain CCAP1002/6 18S ribosomal RNA gene, partial sequence	AY569578.1	1616	473	872	24.75248	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JKSAS 18S ribosomal RNA gene, partial sequence	GU920711.1	484	48	447	82.64463	739	0	400/400	100	0/400	0	Plus	Plus
PREDICTED: Lagenorhynchus	400	1	400	100	PREDICTED: Lagenorhynchus obliquidens 18S ribosomal RNA (LOC113616899), rRNA	XR_003431446.1	1869	614	1013	21.40182	739	0	400/400	100	0/400	0	Plus	Plus
Chrysolepidomonas sp.	400	1	400	100	Chrysolepidomonas sp. strain IOW112 18S ribosomal RNA gene, partial sequence	KX431476.1	917	506	905	43.6205	684	0	390/400	97	0/400	0	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone Ma_14 18S ribosomal RNA gene, partial sequence	KT272692.1	1069	417	812	37.04397	412	4.00E-111	349/408	85	20/408	4	Plus	Plus
Gomphonema cf.	400	1	400	100	Gomphonema cf. angustatum 18S rRNA gene, strain AT-109Gel08b	AM502005.1	1731	531	930	23.10803	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured Cryptomonadaceae	400	1	400	100	Uncultured Cryptomonadaceae gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.4-86	AB749135.1	1860	460	864	21.77419	566	3.00E-157	375/407	92	9/407	2	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Neocercomonas sp.	400	1	400	100	Neocercomonas sp. strain SF21_R_Poa small subunit ribosomal RNA gene, partial sequence	MG775620.1	1813	564	963	22.06288	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured Prostomatea	400	1	400	100	Uncultured Prostomatea clone PR5_3E_39 18S ribosomal RNA gene, partial sequence	GQ330633.1	1434	444	843	27.894	717	0	396/400	99	0/400	0	Plus	Plus
Uncultured Chytriomycetes	400	1	400	100	Uncultured Chytriomycetes clone Tea1 18S ribosomal RNA gene, partial sequence	KT923260.1	1119	538	936	35.65684	704	0	394/400	98	1/400	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1252 18S ribosomal RNA gene, partial sequence	EF023807.1	1840	566	965	21.73913	739	0	400/400	100	0/400	0	Plus	Plus
uncultured ciliate	400	1	400	100	uncultured ciliate genomic DNA sequence contains 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, isolate 3ZS18	LR025746.1	2832	488	888	14.1596	595	4.00E-166	378/404	93	7/404	1	Plus	Plus
Neochloris sp.	400	1	400	100	Neochloris sp. GM4e genes for 18S rRNA, ITS1, 5.8S rRNA, ITS2, 28S rRNA, partial and complete sequence	AB917132.1	5113	1847	2246	7.823196	717	0	396/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P550 small subunit ribosomal RNA gene, partial sequence	MH009038.1	419	1	401	95.70406	540	2.00E-149	369/405	91	9/405	2	Plus	Plus
Fragilaria vaucheriae	400	1	400	100	Fragilaria vaucheriae strain HYNP022 18S ribosomal RNA gene, partial sequence	EU260469.1	1649	497	894	24.13584	693	0	393/401	98	4/401	0	Plus	Plus
Paracyclops chiltoni	400	1	400	100	Paracyclops chiltoni voucher N389DZMB small subunit ribosomal RNA gene, partial sequence	MK370201.1	1643	489	888	24.34571	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Pseudodiffugiidae	400	1	400	100	Uncultured Pseudodiffugiidae clone PR3_4E_92 18S ribosomal RNA gene, partial sequence	GU479953.1	1472	453	852	27.17391	612	4.00E-171	381/404	94	8/404	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H25.7 18S ribosomal RNA gene, partial sequence	AY749543.1	1625	564	963	24.61538	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured plasmodiophorid	400	1	400	100	Uncultured plasmodiophorid clone D20 18S small subunit ribosomal RNA gene, partial sequence	EU910610.1	1804	569	968	22.17295	656	0	386/401	96	2/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone c920 small subunit ribosomal RNA gene, partial sequence	MK946077.1	1305	549	948	30.65134	579	4.00E-161	373/402	92	4/402	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1027 small subunit ribosomal RNA gene, partial sequence	MH009515.1	422	1	401	95.0237	523	2.00E-144	369/408	90	15/408	3	Plus	Plus
Glomeromycotina sp.	400	1	400	100	Glomeromycotina sp. voucher WR902_A small subunit ribosomal RNA gene, partial sequence	MG829360.1	1651	482	883	24.34888	464	1.00E-126	362/412	87	22/412	5	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone c108 small subunit ribosomal RNA gene, partial sequence	MK946259.1	1241	28	427	32.23207	590	2.00E-164	378/405	93	10/405	2	Plus	Plus
Thaumatomonas sp.	400	1	400	100	Thaumatomonas sp. 4 JMS-2012 18S ribosomal RNA gene, partial sequence	KC243120.1	1886	616	1015	21.20891	739	0	400/400	100	0/400	0	Plus	Plus
Fimicolochytrium alabamae	400	1	400	100	Fimicolochytrium alabamae voucher MP01 18S small subunit ribosomal RNA gene, partial sequence	HQ901748.1	1664	471	877	24.45913	579	4.00E-161	380/410	92	13/410	3	Plus	Plus
Euastrum affine	400	1	400	100	Euastrum affine partial 18S rRNA gene, strain SVCK 185	AM920342.1	2126	530	929	18.81468	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Lobosea	400	1	396	99	Uncultured Lobosea clone CV1_B1_92 small subunit ribosomal RNA gene, partial sequence	AY821961.1	1519	416	813	26.20145	584	8.00E-163	375/402	93	10/402	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: A_3_55	AB534334.1	1617	526	926	24.79901	712	0	396/401	98	1/401	0	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota isolate E107_05G 18S ribosomal RNA gene, partial sequence	KC561953.1	1727	546	943	23.04574	560	1.00E-155	373/405	92	12/405	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone KRL01E19 18S ribosomal RNA gene, partial sequence	JN090879.1	1859	570	967	21.40936	505	7.00E-139	368/410	89	22/410	5	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU778 small subunit ribosomal RNA gene, partial sequence	MK351138.1	387	1	380	98.19121	508	5.00E-140	348/383	90	6/383	1	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone C1_2 18S ribosomal RNA gene, partial sequence	KT272679.1	1067	413	813	37.58201	568	9.00E-158	376/407	92	13/407	3	Plus	Plus
Solicoccozyma terricola	400	1	400	100	Solicoccozyma terricola CBS 4517 18S rRNA gene, partial sequence; from TYPE material	NG_062962.1	1656	496	895	24.15459	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured labyrinthulid	400	1	400	100	Uncultured labyrinthulid clone CV1_B1_3 small subunit ribosomal RNA gene, partial sequence	AY821979.1	1632	452	848	24.32598	553	2.00E-153	373/406	91	15/406	3	Plus	Plus
Nitzschia dissipata	400	1	400	100	Nitzschia dissipata partial 18S rRNA gene, clone NDIS1	AJ867018.1	1553	363	762	25.7566	684	0	391/401	97	2/401	0	Plus	Plus
Thaumatomonadida environmental	400	1	400	100	Thaumatomonadida environmental sample clone Amb_18S_1311 18S ribosomal RNA gene, partial sequence	EF023859.1	1817	572	973	22.12438	592	5.00E-165	378/405	93	8/405	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
AF277005 Smittium	400	1	400	100	AF277005 Smittium angustum 18S ribosomal RNA gene, and internal transcribed spacer 1, partial sequence	AF277005.1	1919	524	923	20.84419	684	0	391/401	97	2/401	0	Plus	Plus
Uncultured Chytridiales	400	1	400	100	Uncultured Chytridiales gene for 18S ribosomal RNA, partial sequence, clone: Jp13Ch04E	AB971029.1	1924	358	760	20.94595	625	5.00E-175	383/404	94	5/404	1	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone 13-4.2 small subunit ribosomal RNA gene, partial sequence	AY620303.1	1268	548	948	31.62461	728	0	399/401	99	1/401	0	Plus	Plus
Pinnunavis sp.	400	1	400	100	Pinnunavis sp. 118 18S ribosomal RNA gene, partial sequence	KJ961669.1	1780	552	951	22.47191	662	0	386/400	96	0/400	0	Plus	Plus
Paracercomonas sp.	400	1	400	100	Paracercomonas sp. strain SF61_P_Poa small subunit ribosomal RNA gene, partial sequence	MG775634.1	1809	568	967	22.11166	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone 4-2.7 small subunit ribosomal RNA gene, partial sequence	AY620268.1	1258	545	943	31.71701	732	0	399/400	99	1/400	0	Plus	Plus
Penardeugenia sp.	400	1	400	100	Penardeugenia sp. 18S ribosomal RNA gene, partial sequence	KY695469.1	1723	525	924	23.21532	673	0	389/401	97	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote YK1E-036 gene for 18S ribosomal RNA, partial sequence	LC489009.1	865	423	822	46.24277	623	2.00E-174	383/404	94	8/404	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Kili_18S_N1_04G 18S ribosomal RNA gene, partial sequence	KX771764.1	1725	541	943	23.36232	614	1.00E-171	381/405	94	7/405	1	Plus	Plus
Archerella flavum	400	1	400	100	Archerella flavum isolate BC-4 small subunit ribosomal RNA gene, partial sequence	KC245094.1	1278	555	965	32.15962	472	7.00E-129	372/422	88	33/422	7	Plus	Plus
Uncultured Apusomonadidae	400	1	400	100	Uncultured Apusomonadidae clone Apu_RSA25-27 18S ribosomal RNA gene, partial sequence	KY077725.1	1318	471	869	30.27314	527	1.00E-145	367/405	90	11/405	2	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Ochromonas villosa	400	1	400	100	Ochromonas villosa genomic DNA containing 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, culture collection CCAP 933/25	FR865768.1	2589	533	932	15.44998	551	9.00E-153	373/407	91	14/407	3	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus gene for 18S rRNA, partial sequence, clone: A_3_27	AB534324.1	1609	526	925	24.86016	645	0	385/402	95	4/402	0	Plus	Plus
Uncultured cercozoan	400	1	397	99.25	Uncultured cercozoan isolate HetPan23 18S ribosomal RNA gene, partial sequence	EU709259.1	897	483	878	44.14716	665	0	385/397	96	1/397	0	Plus	Plus
Bryometopus pseudochilodon	400	1	400	100	Bryometopus pseudochilodon 18S ribosomal RNA gene, partial sequence; macronuclear	EU039887.1	1685	535	934	23.73887	656	0	385/400	96	0/400	0	Plus	Plus
Aristolochiaceae environmental	400	1	400	100	Aristolochiaceae environmental sample clone Amb_18S_796 18S ribosomal RNA gene, partial sequence	EF023571.1	1788	556	956	22.42729	662	0	389/403	96	5/403	1	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone v229 small subunit ribosomal RNA gene, partial sequence	MK945914.1	1195	567	967	33.55649	689	0	392/401	97	1/401	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S ribosomal RNA, partial sequence, clone: JP13E01E	AB971041.1	1460	322	720	27.32877	704	0	394/400	98	1/400	0	Plus	Plus
Thaumatomonadida environmental	400	1	400	100	Thaumatomonadida environmental sample clone Amb_18S_1511 18S ribosomal RNA gene, partial sequence	EF024030.1	1854	617	1016	21.57497	689	0	391/400	97	0/400	0	Plus	Plus
Uncultured eukaryote	400	8	400	98.25	Uncultured eukaryote clone Plate1-27-M13R_A03.ab1 18S ribosomal RNA gene, partial sequence	KU757405.1	856	1	390	45.56075	584	8.00E-163	369/394	93	5/394	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Kraken carinae	400	1	400	100	Kraken carinae isolate KJ0001 18S small subunit ribosomal RNA gene, partial sequence	KP940377.1	1686	495	894	23.72479	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured ciliate	400	1	400	100	Uncultured ciliate clone Gy-08-56 18S ribosomal RNA gene, partial sequence	JX268860.1	681	247	649	59.17768	525	5.00E-145	368/407	90	11/407	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, partial sequence, clone: B21_ek_5	LC150147.1	1688	519	918	23.69668	601	8.00E-168	379/404	93	8/404	1	Plus	Plus
Eumonhystera cf.	400	1	400	100	Eumonhystera cf. hungarica 1 JH-2014 strain EumoHon1Z 18S ribosomal RNA gene, partial sequence	KJ636237.1	1691	505	904	23.65464	706	0	395/401	98	2/401	0	Plus	Plus
Rhizophlyctis rosea	400	1	400	100	Rhizophlyctis rosea isolate PL 140 18S ribosomal RNA gene, partial sequence	GQ160456.1	1045	500	900	38.37321	645	0	387/404	95	7/404	1	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate DB-2703-12 18S ribosomal RNA gene, partial sequence	EU567240.1	1134	482	881	35.27337	739	0	400/400	100	0/400	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1017 18S ribosomal RNA gene, partial sequence	EF023442.1	1807	554	948	21.85944	529	4.00E-146	371/408	90	21/408	5	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone SLV_3GJ1_18 18S ribosomal RNA gene, partial sequence	KT072104.1	1809	578	979	22.22222	542	5.00E-150	370/406	91	10/406	2	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate H35p80t13 18S ribosomal RNA gene, partial sequence	EU709254.1	1233	418	817	32.4412	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured soil	400	1	366	91.5	Uncultured soil eukaryote clone b491 small subunit ribosomal RNA gene, partial sequence	MK946206.1	919	556	919	39.60827	392	6.00E-105	324/375	86	20/375	5	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Chytridiales	400	1	400	100	Uncultured Chytridiales gene for 18S ribosomal RNA, partial sequence, clone: Jp13Ch04E	AB971029.1	1924	358	757	20.79002	617	8.00E-173	382/404	94	8/404	1	Plus	Plus
Uncultured ciliate	400	1	400	100	Uncultured ciliate clone Alchichica_AQ1w_5E_45 small subunit ribosomal RNA gene, partial sequence	JN825650.1	1047	484	891	38.96848	542	5.00E-150	373/410	90	12/410	2	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone T2P1AeC12 18S ribosomal RNA gene, partial sequence	GQ995264.1	1766	560	959	22.65006	645	0	386/403	95	6/403	1	Plus	Plus
Filobasidium magnum	400	1	400	100	Filobasidium magnum JCM 9038 18S rRNA gene, partial sequence; from TYPE material	NG_063468.1	1782	544	943	22.44669	739	0	400/400	100	0/400	0	Plus	Plus
Coccomyxa simplex	400	1	400	100	Coccomyxa simplex strain G6-2 small subunit ribosomal RNA gene, partial sequence	MH196858.1	1600	459	858	25	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AD_Nclone08	LC109041.1	1766	559	958	22.65006	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: DW7_2010	AB721020.1	1669	507	905	23.90653	660	0	388/402	96	5/402	1	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone Is1_2 18S ribosomal RNA gene, partial sequence	KT272675.1	1068	413	812	37.45318	595	4.00E-166	379/405	93	10/405	2	Plus	Plus
Achnanthidium minutissimum	400	1	400	100	Achnanthidium minutissimum isolate HYU-D003 small subunit ribosomal RNA gene, partial sequence	MH358459.1	1642	480	879	24.36054	739	0	400/400	100	0/400	0	Plus	Plus
Vorticella gracilis	400	1	400	100	Vorticella gracilis 1 MD-2012 isolate VorGr1 small subunit ribosomal RNA gene, partial sequence; macronuclear	JQ723988.1	1686	518	917	23.72479	667	0	387/400	96	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte clone PR2_3E_81 18S ribosomal RNA gene, partial sequence	GQ330581.1	1445	438	837	27.68166	689	0	391/400	97	0/400	0	Plus	Plus
Chytridiaceae sp.	400	1	400	100	Chytridiaceae sp. PML-2015 isolate JEL364 18S ribosomal RNA gene, partial sequence	KT362375.1	1703	522	921	23.48796	673	0	388/400	97	0/400	0	Plus	Plus
Paraschneideria metamorphosa	400	1	400	100	Paraschneideria metamorphosa small subunit ribosomal RNA gene, partial sequence	FJ459755.1	1698	505	903	23.49823	632	3.00E-177	382/401	95	3/401	0	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone Gr_95 18S ribosomal RNA gene, partial sequence	KT272682.1	1067	413	812	37.48828	684	0	391/401	97	2/401	0	Plus	Plus
Micronuclearia podoventralis	400	1	400	100	Micronuclearia podoventralis small subunit ribosomal RNA gene, partial sequence	AY268038.1	1731	526	926	23.1658	623	2.00E-174	382/403	94	5/403	1	Plus	Plus
Uncultured labyrinthulid	400	1	400	100	Uncultured labyrinthulid clone CV1_B1_3 small subunit ribosomal RNA gene, partial sequence	AY821979.1	1632	452	849	24.38725	527	1.00E-145	366/404	90	10/404	2	Plus	Plus
Uncultured Cryptomonadaceae	400	1	400	100	Uncultured Cryptomonadaceae gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.4-86	AB749135.1	1860	460	865	21.82796	545	4.00E-151	371/407	91	8/407	1	Plus	Plus
Uncultured Peniculida	400	1	400	100	Uncultured Peniculida clone PR2_4E_22 18S ribosomal RNA gene, partial sequence	GQ330632.1	1396	413	812	28.6533	712	0	395/400	98	0/400	0	Plus	Plus
Uncultured labyrinthulid	400	1	400	100	Uncultured labyrinthulid clone CV1_B1_3 small subunit ribosomal RNA gene, partial sequence	AY821979.1	1632	452	851	24.5098	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured cercomonad	400	1	400	100	Uncultured cercomonad clone 7E.IRDBW 18S ribosomal RNA gene, partial sequence	FJ790755.1	1611	481	880	24.8293	606	2.00E-169	379/403	94	6/403	1	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU502 small subunit ribosomal RNA gene, partial sequence	MK350862.1	386	1	378	97.92746	678	0	376/380	98	2/380	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Anteholosticha gracilis	400	1	400	100	Anteholosticha gracilis isolate JJM08080901 small subunit ribosomal RNA gene, partial sequence	KF306397.1	1769	557	956	22.61164	717	0	397/401	99	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Ch8A2mG4 18S ribosomal RNA gene, partial sequence	JF730792.1	1690	512	912	23.72781	545	4.00E-151	368/403	91	5/403	1	Plus	Plus
Cercomonas sp.	400	1	400	100	Cercomonas sp. strain SF42_R_Pla small subunit ribosomal RNA gene, partial sequence	MG775567.1	1411	518	917	28.34869	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Ch8A2mG4 18S ribosomal RNA gene, partial sequence	JF730792.1	1690	512	911	23.66864	706	0	394/400	98	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, partial sequence, clone: HRT3hrs_A5_pssu_6	LC222998.1	1318	155	554	30.34901	723	0	397/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone TKR07E.2 18S ribosomal RNA gene, partial sequence	GU290066.1	1798	563	961	22.19132	665	0	389/402	96	5/402	1	Plus	Plus
Neocercomonas sp.	400	1	400	100	Neocercomonas sp. strain C-59 small subunit ribosomal RNA gene, partial sequence	AY884330.1	1070	482	881	37.38318	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone WS_CM1 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	FJ687268.2	2546	387	786	15.71092	701	0	393/400	98	0/400	0	Plus	Plus
Agolohymena aspidocauda	400	1	400	100	Agolohymena aspidocauda small subunit ribosomal RNA gene, complete sequence	HM014309.1	1750	558	957	22.85714	728	0	398/400	99	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Cercozoa sp.	400	1	400	100	Cercozoa sp. xt43 18S ribosomal RNA gene, partial sequence	AY620256.1	1081	456	855	37.00278	732	0	398/400	99	0/400	0	Plus	Plus
Kappamyces laurelensis	400	1	400	100	Kappamyces laurelensis UACCC PL098 18S rRNA gene, partial sequence; from reference material	NG_061053.1	1769	539	939	22.66817	717	0	397/401	99	1/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone k270 small subunit ribosomal RNA gene, partial sequence	MK945955.1	1726	583	975	22.76941	394	2.00E-105	348/409	85	25/409	6	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F12_SE4A 18S ribosomal RNA gene, partial sequence	FJ592441.1	1068	4	403	37.45318	734	0	399/400	99	0/400	0	Plus	Plus
Chlamydomonas sp.	400	1	400	100	Chlamydomonas sp. YACCYB332 18S ribosomal RNA gene, partial sequence	MH683856.1	1691	513	912	23.65464	739	0	400/400	100	0/400	0	Plus	Plus
Amphora copulata	400	1	400	100	Amphora copulata isolate 0778-AMPH095 18S ribosomal RNA gene, partial sequence	MG027291.1	1557	459	858	25.69043	728	0	398/400	99	0/400	0	Plus	Plus
Microspora sp.	400	1	400	100	Microspora sp. UTEX LB472 strain UTEX LB 472 18S ribosomal RNA gene, partial sequence	AF387160.1	1687	515	914	23.71073	673	0	390/402	97	4/402	0	Plus	Plus
Chytriomycetes sp.	400	10	400	97.75	Chytriomycetes sp. isolate TXST041 small subunit ribosomal RNA gene, partial sequence	MG979837.1	844	1	392	46.4455	606	2.00E-169	376/397	94	11/397	2	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus isolate DGGE gel band 9mFR1L8B4 18S ribosomal RNA gene, partial sequence	KF219356.1	1063	493	891	37.53528	686	0	390/400	97	1/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: K4APR2011	AB771874.1	1685	515	912	23.62018	521	7.00E-144	365/404	90	10/404	2	Plus	Plus
Uncultured Euglyphidae	400	1	400	100	Uncultured Euglyphidae clone C1_4 18S ribosomal RNA gene, partial sequence	KT272544.1	1068	414	811	37.26592	411	2.00E-110	349/408	85	18/408	4	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured stramenopile	400	1	400	100	Uncultured stramenopile clone STFeb_303 18S ribosomal RNA gene, partial sequence	HM135093.1	1713	525	926	23.4676	669	0	389/402	96	2/402	0	Plus	Plus
Tupiella speciosa	400	1	400	100	Tupiella speciosa strain CCALE 423 18S ribosomal RNA gene, partial sequence	MF000567.1	1702	513	912	23.50176	739	0	400/400	100	0/400	0	Plus	Plus
Leptosporella sp.	400	1	400	100	Leptosporella sp. SK-2019a voucher SRWD14b small subunit ribosomal RNA gene, partial sequence	MK659774.1	1047	491	889	38.10888	555	7.00E-154	374/407	91	15/407	3	Plus	Plus
Placoneis elginensis	400	1	400	100	Placoneis elginensis 18S rRNA gene, strain AT-160Gel18	AM501953.1	1728	529	928	23.14815	689	0	392/401	97	2/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone t243 small subunit ribosomal RNA gene, partial sequence	MK946120.1	1032	562	959	38.56589	638	6.00E-179	386/404	95	10/404	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P573 small subunit ribosomal RNA gene, partial sequence	MH009061.1	426	1	400	93.89671	673	0	389/401	97	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AD_Kclone12	LC109030.1	1778	559	958	22.49719	739	0	400/400	100	0/400	0	Plus	Plus
Vermamoeba vermiformis	400	1	400	100	Vermamoeba vermiformis isolate 1 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, internal transcribed spacer 2, and 28S ribosomal RNA gene, complete sequence	KT185625.1	7278	1580	1979	5.496015	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.7-8	AB749057.1	1662	455	854	24.06739	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured cercoconad	400	1	400	100	Uncultured cercoconad clone AC43p87t19 18S ribosomal RNA gene, partial sequence	FJ790746.1	806	300	699	49.62779	667	0	388/401	96	2/401	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Metabolomonas insania	400	1	400	100	Metabolomonas insania strain HFCC 922 18S ribosomal RNA gene, partial sequence	HM536167.1	1774	549	948	22.54791	662	0	386/400	96	0/400	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate PriestPotAnaerSed 18S ribosomal RNA gene, partial sequence	EU709166.1	665	94	491	59.84962	566	3.00E-157	374/405	92	12/405	2	Plus	Plus
Cryptomonas sp.	400	1	400	100	Cryptomonas sp. M2195 nucleomorph partial 18S rRNA gene, strain M2195	AM396375.1	1785	582	977	22.18487	713	0	396/400	99	4/400	1	Plus	Plus
Uncultured microeukaryote	400	1	400	100	Uncultured microeukaryote clone 229Feb24_12H 18S ribosomal RNA gene, partial sequence	JN705532.1	1285	125	524	31.1284	667	0	387/400	96	0/400	0	Plus	Plus
Pythium monospermum	400	1	400	100	Pythium monospermum voucher CBS15873 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	HQ643697.2	3932	542	941	10.17294	717	0	398/402	99	4/402	0	Plus	Plus
HIBRRNAA Hibberdia	400	1	400	100	HIBRRNAA Hibberdia magna 16S-like ribosomal RNA, complete	M87331.1	1785	553	952	22.40896	717	0	397/401	99	2/401	0	Plus	Plus
Dimorpha sp.	400	1	400	100	Dimorpha sp. ATCC PRA-54 18S small subunit ribosomal RNA gene, partial sequence	EF455769.1	1760	562	959	22.61364	654	0	387/402	96	6/402	1	Plus	Plus
Salpingoeca kjevrii	400	1	400	100	Salpingoeca kjevrii strain ATCC 50929 18S small subunit ribosomal RNA gene, partial sequence	KT757494.1	1776	565	946	21.50901	412	4.00E-111	348/404	86	26/404	6	Plus	Plus
Korotnevella foustia	400	1	400	100	Korotnevella foustia strain Sred2012 18S ribosomal RNA gene, partial sequence	KU535558.1	1840	570	969	21.73913	540	2.00E-149	368/404	91	8/404	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	4	400	99.25	Uncultured eukaryote clone EPK_B_G7 18S ribosomal RNA gene, partial sequence	DQ104595.1	1194	4	401	33.33333	606	2.00E-169	379/402	94	9/402	2	Plus	Plus
Sphenoderia minuta	400	1	400	100	Sphenoderia minuta isolate SMIN small subunit ribosomal RNA gene, partial sequence	KF539409.1	1581	432	831	25.30044	556	2.00E-154	370/403	91	6/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone E64 18S ribosomal RNA gene, partial sequence	JN054697.1	1515	354	753	26.40264	739	0	400/400	100	0/400	0	Plus	Plus
Fibroporia gossypium	400	1	400	100	Fibroporia gossypium voucher Cui 9472 18S small subunit ribosomal RNA gene, partial sequence	KU550534.1	997	482	881	40.12036	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone 10-4Fu05 small subunit ribosomal RNA gene, partial sequence	AY360709.1	862	80	480	46.51972	728	0	399/401	99	1/401	0	Plus	Plus
AF274257 Glenodiniopsis	400	1	398	99.5	AF274257 Glenodiniopsis steinii strain NIES 463 small subunit ribosomal RNA gene, complete sequence	AF274257.1	1756	544	942	22.7221	636	2.00E-178	381/399	95	1/399	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	928	22.95742	577	1.00E-160	375/404	92	9/404	2	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone Fr_Ch_9 18S ribosomal RNA gene, partial sequence	KT251174.1	1094	462	862	36.65448	617	8.00E-173	379/401	94	1/401	0	Plus	Plus
Uncultured soil	400	1	384	96	Uncultured soil eukaryote clone o463 small subunit ribosomal RNA gene, partial sequence	MK946401.1	1398	625	1007	27.39628	392	6.00E-105	337/394	85	21/394	5	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate PriestPotAnaerSed 18S ribosomal RNA gene, partial sequence	EU709166.1	665	94	492	60	732	0	399/400	99	1/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Nowakowskiella sp.	400	1	400	100	Nowakowskiella sp. voucher CCIBt 4260 small subunit ribosomal RNA gene, partial sequence	MH590094.1	1049	516	920	38.6082	649	0	388/405	95	5/405	1	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone T5P2AeB10 18S ribosomal RNA gene, partial sequence	GQ995435.1	1765	557	956	22.66289	684	0	391/401	97	2/401	0	Plus	Plus
Cercozoa sp.	400	1	400	100	Cercozoa sp. WA57p120t8LS 18S ribosomal RNA gene, partial sequence	EU709173.1	1562	466	866	25.67222	662	0	388/402	96	3/402	0	Plus	Plus
Neidium sp.	400	1	400	100	Neidium sp. D4R20 voucher CANA:108606 D4R20 18S ribosomal RNA gene, partial sequence	KU674445.1	903	100	499	44.29679	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota isolate R11a_14 18S ribosomal RNA gene, partial sequence	KC561959.1	1729	546	944	23.07692	593	1.00E-165	378/404	93	9/404	2	Plus	Plus
Spumella-like flagellate	400	1	400	100	Spumella-like flagellate JBM28 18S ribosomal RNA gene, partial sequence	AY651089.1	1699	477	876	23.54326	595	4.00E-166	376/402	93	4/402	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone S4-3 18S ribosomal RNA gene, partial sequence	JN547322.1	1434	521	920	27.894	689	0	391/400	97	0/400	0	Plus	Plus
Uncultured eukaryote	400	21	398	94.5	Uncultured eukaryote isolate OTU592 small subunit ribosomal RNA gene, partial sequence	MK350952.1	378	1	378	100	599	3.00E-167	362/380	95	4/380	1	Plus	Plus
Cryptosporidiidae environmental	400	1	400	100	Cryptosporidiidae environmental sample clone Elev_18S_1508 18S ribosomal RNA gene, partial sequence	EF024963.1	1761	551	950	22.71437	689	0	392/401	97	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1303 small subunit ribosomal RNA gene, partial sequence	MH009791.1	426	1	402	94.3662	558	5.00E-155	373/406	91	10/406	2	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone 4-6.1 small subunit ribosomal RNA gene, partial sequence	AY620271.1	1269	548	947	31.52088	739	0	400/400	100	0/400	0	Plus	Plus
Coccoid scenedesmid	400	1	400	100	Coccoid scenedesmid sp. Tow 9/21 P-13w 18S ribosomal RNA gene, partial sequence	AY197638.1	1757	545	944	22.76608	734	0	399/400	99	0/400	0	Plus	Plus
Pinnularia cf.	400	1	400	100	Pinnularia cf. marchica strain (Ecrins4)a 18S ribosomal RNA gene, partial sequence	JN418569.1	1706	531	930	23.44666	728	0	398/400	99	0/400	0	Plus	Plus
Hyaloraphidium curvatum	400	1	400	100	Hyaloraphidium curvatum 18S rRNA gene	NG_017172.1	1796	562	968	22.66147	424	2.00E-114	353/411	85	15/411	3	Plus	Plus
Chaetonotus cf.	400	1	400	100	Chaetonotus cf. similis TK106 18S ribosomal RNA gene, partial sequence	JQ798548.1	1689	513	898	22.85376	621	6.00E-174	382/401	95	16/401	3	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate he2 18S ribosomal RNA gene, partial sequence	EU567248.1	1135	478	875	35.06608	444	2.00E-120	358/411	87	24/411	5	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU404 small subunit ribosomal RNA gene, partial sequence	MK350764.1	398	1	380	95.47739	664	0	374/381	98	2/381	0	Plus	Plus
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone 53c_51339 18S ribosomal RNA gene, partial sequence	KT818490.1	439	1	374	85.19362	503	2.00E-138	346/380	91	11/380	2	Plus	Plus
Ischnamoeba montana	400	1	400	100	Ischnamoeba montana isolate Tib85 small subunit ribosomal RNA gene, partial sequence	KP864092.1	1932	539	938	20.70393	734	0	399/400	99	0/400	0	Plus	Plus
Monosiga ovata	400	1	400	100	Monosiga ovata 18S ribosomal RNA gene, partial sequence	AF084230.1	1765	529	913	21.81303	486	2.00E-133	362/405	89	25/405	6	Plus	Plus
Glissomonad sp.	400	1	400	100	Glissomonad sp. Panama103 18S ribosomal RNA gene, partial sequence	EU709272.1	1833	440	839	21.82215	584	8.00E-163	379/407	93	14/407	3	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Apusomonadidae	400	1	400	100	Uncultured Apusomonadidae clone Apu_RSA25-27 18S ribosomal RNA gene, partial sequence	KY077725.1	1318	471	869	30.27314	527	1.00E-145	366/404	90	9/404	2	Plus	Plus
Rhizophydiales sp.	400	1	400	100	Rhizophydiales sp. AF023 18S ribosomal RNA gene, partial sequence	GQ995448.1	1031	497	896	38.79728	739	0	400/400	100	0/400	0	Plus	Plus
Paraschneideria metamorphosa	400	1	400	100	Paraschneideria metamorphosa small subunit ribosomal RNA gene, partial sequence	FJ459755.1	1698	505	905	23.61602	462	4.00E-126	360/410	87	19/410	4	Plus	Plus
Uncultured Bryometopida	400	1	400	100	Uncultured Bryometopida clone PRS3_4E_35 18S ribosomal RNA gene, partial sequence	GU479974.1	1426	437	836	28.05049	623	2.00E-174	380/401	94	2/401	0	Plus	Plus
Chrysophyceae sp.	400	1	400	100	Chrysophyceae sp. strain FU34KF 18S ribosomal RNA gene, partial sequence	KX100587.1	1112	408	807	35.97122	645	0	386/403	95	6/403	1	Plus	Plus
Harpochytrium sp.	400	1	398	99.5	Harpochytrium sp. JEL290 18S ribosomal RNA gene and internal transcribed spacer 1, partial sequence	KJ668051.1	2071	534	935	19.41091	440	2.00E-119	357/411	86	22/411	5	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_755 18S ribosomal RNA gene, partial sequence	EF023415.1	1834	572	971	21.81025	590	2.00E-164	381/408	93	16/408	3	Plus	Plus
Synura synuroidea	400	1	400	100	Synura synuroidea strain S95.E5 18S ribosomal RNA gene, partial sequence	KX815882.1	1354	182	581	29.5421	706	0	396/402	98	4/402	0	Plus	Plus
Heterophrys sp.	400	1	400	100	Heterophrys sp. Oxford1 18S ribosomal RNA gene, partial sequence	AY749611.1	1613	553	955	24.9845	669	0	392/405	96	7/405	1	Plus	Plus
Halamphora sp.	400	1	400	100	Halamphora sp. isolate 0399-AMPH018 18S ribosomal RNA gene, partial sequence	MG027261.1	1543	450	843	25.53467	579	4.00E-161	374/402	93	10/402	2	Plus	Plus
Cercozoa sp.	400	1	400	100	Cercozoa sp. OfKV 18S ribosomal RNA gene, partial sequence	HQ918173.1	2261	569	968	17.69129	734	0	399/400	99	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate se1 18S ribosomal RNA gene, partial sequence	EU567245.1	1117	474	873	35.81021	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JKSAS 18S ribosomal RNA gene, partial sequence	GU920711.1	484	48	442	81.61157	579	4.00E-161	374/402	93	9/402	2	Plus	Plus
Ichthyophthirius multifiliis	400	1	400	100	Ichthyophthirius multifiliis isolate Klamath River, CA, Chinook salmon small subunit ribosomal RNA gene, partial sequence	MK078121.1	844	142	541	47.39336	667	0	387/400	96	0/400	0	Plus	Plus
Uncultured labyrinthulid	400	1	400	100	Uncultured labyrinthulid clone CV1_B1_3 small subunit ribosomal RNA gene, partial sequence	AY821979.1	1632	452	850	24.44853	538	7.00E-149	370/406	91	13/406	3	Plus	Plus
Cyrtolophosis mucicola	400	1	400	100	Cyrtolophosis mucicola from Austria 18S ribosomal RNA gene, partial sequence; macronuclear	EU039899.1	1696	532	931	23.58491	725	0	397/400	99	0/400	0	Plus	Plus
Haptophyta environmental	400	1	400	100	Haptophyta environmental samples clone CV1_B1_97 small subunit ribosomal RNA gene, partial sequence	AY821959.1	1853	542	941	21.58662	595	4.00E-166	378/404	93	8/404	1	Plus	Plus
Surirella sp.	400	1	400	100	Surirella sp. heteropolar isolate B495 18S ribosomal RNA gene, partial sequence	KX120781.1	1562	489	888	25.60819	562	4.00E-156	371/403	92	6/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Lut.Sed.5.2 small subunit ribosomal RNA gene, partial sequence	GU117670.1	1568	504	903	25.5102	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured Chytriomycetes	400	1	400	100	Uncultured Chytriomycetes clone Tea1 18S ribosomal RNA gene, partial sequence	KT923260.1	1119	538	935	35.56747	676	0	389/400	97	2/400	0	Plus	Plus
Kraken carinae	400	1	400	100	Kraken carinae isolate KD0248 18S small subunit ribosomal RNA gene, partial sequence	KP940373.1	1686	495	895	23.7841	678	0	390/401	97	1/401	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Hydrurus	400	1	400	100	Uncultured Hydrurus clone Esp21 18S ribosomal RNA gene, partial sequence	MG674912.1	1789	554	953	22.35886	739	0	400/400	100	0/400	0	Plus	Plus
Lagenisma coscinodisci	400	1	400	100	Lagenisma coscinodisci 18S ribosomal RNA gene, partial sequence	KT273921.1	1094	479	878	36.56307	712	0	395/400	98	0/400	0	Plus	Plus
Uncultured labyrinthulid	400	1	398	99.5	Uncultured labyrinthulid clone CV1_B1_3 small subunit ribosomal RNA gene, partial sequence	AY821979.1	1632	452	849	24.38725	470	2.00E-128	356/404	88	12/404	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone D4P07E09 18S ribosomal RNA gene, partial sequence	EF100328.1	1442	566	965	27.73925	606	2.00E-169	381/405	94	10/405	2	Plus	Plus
Achnanthidium digitatum	400	1	400	100	Achnanthidium digitatum voucher SPITS_M2AplusB_32 18S small subunit ribosomal RNA gene, partial sequence	KX946582.1	1112	56	455	35.97122	712	0	396/401	98	2/401	0	Plus	Plus
Nutomonas limna	400	1	400	100	Nutomonas limna strain staf1 18S ribosomal RNA gene, partial sequence	JQ340330.1	1712	532	931	23.36449	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate dfmo4345.004 18S ribosomal RNA gene, partial sequence	AY969221.1	738	573	174	54.20054	734	0	399/400	99	0/400	0	Plus	Minus
Uncultured eukaryotic	400	1	400	100	Uncultured eukaryotic picoplankton clone BI45 18S ribosomal RNA gene, partial sequence	EF196772.1	946	416	814	42.17759	621	6.00E-174	380/401	94	3/401	0	Plus	Plus
Paraphysomonas sp.	400	1	400	100	Paraphysomonas sp. WA32KAG 18S ribosomal RNA gene, partial sequence	JQ967319.1	1416	481	880	28.24859	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: SB10_2010	AB721051.1	1697	504	903	23.57101	695	0	392/400	98	0/400	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone Va2007BD10 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	JQ689447.1	1682	543	942	23.78121	734	0	399/400	99	0/400	0	Plus	Plus
AF274257 Glenodiniopsis	400	1	400	100	AF274257 Glenodiniopsis steinii strain NIES 463 small subunit ribosomal RNA gene, complete sequence	AF274257.1	1756	544	944	22.83599	640	2.00E-179	385/403	95	5/403	1	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus 18S rRNA gene (partial), ITS1, 5.8S rRNA gene, ITS2 and 28S rRNA gene (partial), clone hww6	FM178232.1	2004	382	781	19.96008	601	8.00E-168	377/402	93	4/402	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU304 small subunit ribosomal RNA gene, partial sequence	MK350664.1	391	1	381	97.44246	514	1.00E-141	351/385	91	9/385	2	Plus	Plus
Thraustochytriidae sp.	400	1	400	100	Thraustochytriidae sp. Fng109 18S ribosomal RNA gene, partial sequence	AY872262.2	651	170	561	60.21505	399	3.00E-107	348/408	85	24/408	5	Plus	Plus
Uncultured Glissomonadida	400	1	400	100	Uncultured Glissomonadida clone Es_Cp_411 18S ribosomal RNA gene, partial sequence	KT251139.1	1111	469	868	36.0036	739	0	400/400	100	0/400	0	Plus	Plus
Bodomorpha minima	400	1	400	100	Bodomorpha minima 18S ribosomal RNA gene, complete sequence	AF411276.1	1857	574	973	21.54012	739	0	400/400	100	0/400	0	Plus	Plus
Phryganella paradoxa	400	1	400	100	Phryganella paradoxa isolate KD1032 18S ribosomal RNA gene, partial sequence	MF497378.1	3892	567	962	10.17472	553	2.00E-153	372/405	91	14/405	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P414 small subunit ribosomal RNA gene, partial sequence	MH008902.1	435	1	403	92.64368	542	5.00E-150	374/410	91	17/410	4	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Chlamydomonas sp.	400	1	400	100	Chlamydomonas sp. CCAP 11/140 genomic DNA containing 18S rRNA gene, ITS1, culture collection CCAP 11/140	FR865535.1	1887	541	940	21.19767	739	0	400/400	100	0/400	0	Plus	Plus
[Candida] schatavii	400	1	400	100	[Candida] schatavii JCM 1778 18S rRNA gene, partial sequence; from TYPE material	NG_063404.1	1781	546	945	22.45929	739	0	400/400	100	0/400	0	Plus	Plus
Xanthophyceae sp.	400	1	400	100	Xanthophyceae sp. EP-2019 isolate 19 small subunit ribosomal RNA gene, partial sequence	MK929251.1	1033	499	898	38.72217	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured cercozoan	400	21	400	95	Uncultured cercozoan clone OTU_728 18S ribosomal RNA gene, partial sequence	KU738517.1	388	1	383	98.71134	588	7.00E-164	365/386	94	9/386	2	Plus	Plus
Cercomonas sp.	400	1	400	100	Cercomonas sp. strain C-71 small subunit ribosomal RNA gene, partial sequence	AY884340.1	1061	476	874	37.60603	665	0	387/400	96	1/400	0	Plus	Plus
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.4-69	AB749118.1	1667	455	854	23.9952	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone B1_92 18S ribosomal RNA gene, partial sequence	KT272649.1	1061	409	807	37.60603	616	3.00E-172	381/403	94	7/403	1	Plus	Plus
Anteholosticha monilata	400	1	400	100	Anteholosticha monilata small subunit ribosomal RNA gene, partial sequence	KJ958488.1	1692	478	877	23.64066	728	0	398/400	99	0/400	0	Plus	Plus
Catenula turgida	400	1	400	100	Catenula turgida isolate K04_22 18S ribosomal RNA gene, partial sequence	FJ384802.1	1744	533	932	22.93578	573	2.00E-159	372/402	92	4/402	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: ABC2_H06	AB572139.1	676	140	531	57.98817	472	7.00E-129	363/410	88	28/410	6	Plus	Plus
Uncultured ciliate	400	1	400	100	Uncultured ciliate clone Gy-08-56 18S ribosomal RNA gene, partial sequence	JX268860.1	681	247	649	59.17768	536	2.00E-148	372/409	90	15/409	3	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Cyclidium glaucoma	400	1	400	100	Cyclidium glaucoma isolate ES24 18S ribosomal RNA gene, partial sequence	DQ442840.1	884	325	723	45.13575	604	7.00E-169	381/405	94	11/405	2	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil fungus clone HE54 16S ribosomal RNA gene, partial sequence	HQ848468.1	903	286	685	44.29679	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured Sphaeroeca	400	22	400	94.75	Uncultured Sphaeroeca partial 18S rRNA gene, clone WS 3-Uni05	AJ867611.1	1059	1	379	35.78848	667	0	374/380	98	2/380	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone c108 small subunit ribosomal RNA gene, partial sequence	MK946259.1	1241	28	427	32.23207	579	4.00E-161	375/404	92	8/404	1	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU404 small subunit ribosomal RNA gene, partial sequence	MK350764.1	398	1	383	96.23116	516	3.00E-142	351/385	91	7/385	1	Plus	Plus
Mesenchytraeus pelicensis	400	1	400	100	Mesenchytraeus pelicensis 18S ribosomal RNA gene, partial sequence	GU453343.1	1721	540	939	23.2423	702	0	394/401	98	2/401	0	Plus	Plus
Achnanthidium straubianum	400	1	400	100	Achnanthidium straubianum voucher TCC831 18S ribosomal RNA gene, partial sequence	KY863467.1	1089	493	891	36.63912	693	0	392/400	98	1/400	0	Plus	Plus
Nematostelium ovatum	400	1	400	100	Nematostelium ovatum isolate JDS 6241 18S ribosomal RNA gene, partial sequence	FJ544420.1	1918	560	969	21.37643	544	1.00E-150	375/412	91	14/412	3	Plus	Plus
Uncultured alveolate	400	1	400	100	Uncultured alveolate clone DDI101.fa small subunit ribosomal RNA gene, partial sequence	MK177615.1	1636	451	850	24.44988	689	0	392/401	97	2/401	0	Plus	Plus
Uncultured marine	400	11	400	97.5	Uncultured marine eukaryote clone GoC6_F03 small subunit ribosomal RNA gene, partial sequence	FJ153739.1	1202	2	391	32.44592	577	1.00E-160	365/391	93	2/391	0	Plus	Plus
Cryptomonas sp.	400	1	400	100	Cryptomonas sp. CNUCRY 75 18S small subunit ribosomal RNA gene, partial sequence	KF907401.1	1699	499	899	23.60212	734	0	400/401	99	1/401	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/ Total	Pct. (%)	Match/ Total	Pct. (%)	Query	Subject
Monomastix opisthostigma	400	1	400	100	Monomastix opisthostigma 18S rRNA gene (partial), ITS1, 5.8S rRNA gene, ITS2 and 28S rRNA gene (partial), strain M2844	FN562445.1	2502	543	942	15.98721	723	0	398/401	99	2/401	0	Plus	Plus
Korotnevelia foustia	400	1	400	100	Korotnevelia foustia strain Sred2012 18S ribosomal RNA gene, partial sequence	KU535558.1	1840	570	969	21.73913	645	0	385/402	95	4/402	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: F7_2010	AB721069.1	1686	503	902	23.72479	512	4.00E-141	367/408	89	16/408	3	Plus	Plus
Catenomyces sp.	400	1	400	100	Catenomyces sp. JEL342 isolate AFTOL-ID 47 18S ribosomal RNA gene, partial sequence	AY635830.1	1767	528	927	22.63724	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate DB-2305-20 18S ribosomal RNA gene, partial sequence	EU567244.1	1122	475	873	35.5615	732	0	399/400	99	1/400	0	Plus	Plus
Surirella cf.	400	1	400	100	Surirella cf. linearis isolate B600 18S ribosomal RNA gene, partial sequence	KX120782.1	1535	461	857	25.86319	520	2.00E-143	366/405	90	13/405	3	Plus	Plus
Chaetonotus cf.	400	1	400	100	Chaetonotus cf. similis TK106 18S ribosomal RNA gene, partial sequence	JQ798548.1	1689	513	924	24.39313	673	0	398/412	96	12/412	2	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate HetAus17 18S ribosomal RNA gene, partial sequence	EU709266.1	1570	468	867	25.47771	734	0	399/400	99	0/400	0	Plus	Plus
Thaumatomonadida environmental	400	1	400	100	Thaumatomonadida environmental sample clone Elev_18S_823 18S ribosomal RNA gene, partial sequence	EF024516.1	1813	574	973	22.06288	717	0	396/400	99	0/400	0	Plus	Plus
Paraphysomonas sp.	400	1	400	100	Paraphysomonas sp. strain 9-20-F1 18S ribosomal RNA gene, partial sequence	KX100596.1	1669	485	884	23.96645	734	0	399/400	99	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/ Total	Pct. (%)	Match/ Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone 53c_51339 18S ribosomal RNA gene, partial sequence	KT818490.1	439	1	375	85.42141	527	1.00E-145	348/378	92	6/378	1	Plus	Plus
Dictyococcus sp.	400	1	400	100	Dictyococcus sp. KF 45 18S ribosomal RNA gene, partial sequence	HM852440.1	1749	540	939	22.87021	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.8-64	AB749113.1	1660	452	851	24.09639	623	2.00E-174	380/401	94	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone C16 18S ribosomal RNA gene, partial sequence	JN054677.1	1549	359	742	24.79019	398	1.00E-106	347/406	85	28/406	6	Plus	Plus
Closterium venus	400	1	400	100	Closterium venus N-90-48 18S ribosomal RNA gene, complete sequence	AF352236.1	2294	572	971	17.43679	651	0	384/400	96	0/400	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1440 18S ribosomal RNA gene, partial sequence	EF023971.1	1863	633	1035	21.63178	625	5.00E-175	386/407	94	11/407	2	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU678 small subunit ribosomal RNA gene, partial sequence	MK351038.1	390	1	382	97.94872	455	7.00E-124	345/390	88	18/390	4	Plus	Plus
Vexillifera bacillipedes	400	1	400	100	Vexillifera bacillipedes strain CCAP 1590/1 small subunit ribosomal RNA gene, partial sequence	HQ687485.1	2133	661	1055	18.51852	479	4.00E-131	362/408	88	21/408	5	Plus	Plus
Paracercomonas sp.	400	1	400	100	Paracercomonas sp. strain SF61_P_Poa small subunit ribosomal RNA gene, partial sequence	MG775634.1	1809	568	965	22.00111	627	1.00E-175	384/404	95	10/404	2	Plus	Plus
Saccamoeba sp.	400	1	400	100	Saccamoeba sp. POHL gene for 18S ribosomal RNA, partial sequence	LC272072.1	1933	580	984	20.95189	438	7.00E-119	361/416	86	27/416	6	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone Va2007BA7 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	JQ689443.1	1651	541	944	24.47002	617	8.00E-173	384/407	94	10/407	2	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote clone 4-MSTAreuk:1 small subunit ribosomal RNA gene, partial sequence	MG418716.1	429	1	380	88.57809	691	0	378/380	99	0/380	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	930	23.0725	562	4.00E-156	374/406	92	11/406	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone ACWCSP1D3 18S ribosomal RNA gene, partial sequence	FJ705110.1	1051	28	427	38.05899	717	0	396/400	99	0/400	0	Plus	Plus
Monodiamesa sp.	400	1	400	100	Monodiamesa sp. 1 SRM-2010 voucher PRO3 18S ribosomal RNA gene, partial sequence	HQ440623.1	912	111	510	43.85965	706	0	394/400	98	0/400	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU172 small subunit ribosomal RNA gene, partial sequence	MK350532.1	378	1	365	96.56085	544	1.00E-150	355/381	93	17/381	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone BOLA868 small subunit ribosomal RNA gene, partial sequence	AF372795.1	1605	511	896	24.04984	532	3.00E-147	367/402	91	18/402	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone EUKDPK52 18S ribosomal RNA gene, partial sequence	DQ104602.1	1279	12	412	31.35262	701	0	395/402	98	3/402	0	Plus	Plus
Uncultured Blastocladiomycota	400	58	400	85.75	Uncultured Blastocladiomycota clone CR73P5C9 18S ribosomal RNA gene, partial sequence	GU810786.1	483	1	343	71.01449	612	4.00E-171	339/343	98	0/343	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1027 small subunit ribosomal RNA gene, partial sequence	MH009515.1	422	1	400	94.78673	484	9.00E-133	364/410	88	20/410	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, partial sequence, clone: B21_ek_35	LC150173.1	1472	520	917	27.03804	416	3.00E-112	350/408	85	18/408	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, partial sequence, clone: HRT3hrs_A5_euk_19	LC222964.1	1645	525	929	24.62006	468	9.00E-128	361/411	87	17/411	4	Plus	Plus
Rhizamoeba australiensis	400	1	400	100	Rhizamoeba australiensis strain CCAP 1570/4 small subunit ribosomal RNA gene, partial sequence	KT945252.1	1678	571	970	23.8379	706	0	394/400	98	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone W8eH9 18S ribosomal RNA gene, partial sequence	JF730876.1	1688	512	911	23.69668	584	8.00E-163	374/402	93	4/402	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate H82p80t26 18S ribosomal RNA gene, partial sequence	EU709193.1	1278	473	872	31.2989	712	0	395/400	98	0/400	0	Plus	Plus
Navicula sp.	400	1	400	100	Navicula sp. isolate SKLMP_B008 small subunit ribosomal RNA gene, partial sequence	MG890423.1	1710	543	942	23.39181	689	0	391/400	97	0/400	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate dfmo4344.098 18S ribosomal RNA gene, partial sequence	AY969211.1	739	582	183	54.1272	678	0	389/400	97	0/400	0	Plus	Minus
Fisculla terrestris	400	1	400	100	Fisculla terrestris 18S small subunit ribosomal RNA gene, partial sequence	KP728379.1	1728	496	895	23.14815	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone g196 small subunit ribosomal RNA gene, partial sequence	MK945899.1	1263	496	894	31.59145	427	2.00E-115	354/410	86	21/410	5	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Glissomonadida	400	1	400	100	Uncultured Glissomonadida clone Fr_Ch_7 18S ribosomal RNA gene, partial sequence	KT251173.1	1044	413	812	38.31418	678	0	389/400	97	0/400	0	Plus	Plus
Kumanoa intorta	400	1	400	100	Kumanoa intorta voucher SAS06020 18S ribosomal RNA gene, partial sequence	KC511080.1	1711	524	923	23.37814	712	0	395/400	98	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone SGSU753 18S ribosomal RNA gene, partial sequence	HQ866453.1	889	3	405	45.33183	575	5.00E-160	374/404	92	5/404	1	Plus	Plus
Uncultured eukaryote	400	1	398	99.5	Uncultured eukaryote isolate P28 small subunit ribosomal RNA gene, partial sequence	MH008516.1	398	1	398	100	702	0	392/398	98	0/398	0	Plus	Plus
Uncultured Chrysophyceae	400	19	400	95.5	Uncultured Chrysophyceae clone OTU512 small subunit ribosomal RNA gene, partial sequence	MH023049.1	385	1	382	99.22078	701	0	381/382	99	0/382	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P721 small subunit ribosomal RNA gene, partial sequence	MH009209.1	431	1	400	92.80742	689	0	392/401	97	2/401	0	Plus	Plus
Nitzschia acidoclinata	400	1	400	100	Nitzschia acidoclinata isolate TCC538 18S ribosomal RNA gene, partial sequence	KT072971.1	1698	507	906	23.55713	739	0	400/400	100	0/400	0	Plus	Plus
Achnanthidium daonense	400	1	400	100	Achnanthidium daonense isolate PS3 18S ribosomal RNA gene, partial sequence	KJ658413.1	1613	532	929	24.67452	704	0	394/400	98	2/400	0	Plus	Plus
Cynops pyrrhogaster	400	1	400	100	Cynops pyrrhogaster 18S ribosomal RNA, partial sequence	AB239574.1	2536	537	936	15.77287	739	0	400/400	100	0/400	0	Plus	Plus
Stichotrichia sp.	400	1	400	100	Stichotrichia sp. bBoG2 partial 18S rRNA gene, isolate bBoG2 Stichotrich (m1)	LN869990.1	938	327	726	42.64392	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil fungus clone HE35 16S ribosomal RNA gene, partial sequence	HQ848467.1	898	286	685	44.54343	734	0	399/400	99	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S ribosomal RNA, partial sequence, clone: JP13E05E	AB971046.1	808	331	723	48.63861	488	7.00E-134	364/408	89	23/408	5	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AOan_H_2012Mar_91	AB902148.1	1777	563	962	22.50985	728	0	398/400	99	0/400	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus partial 18S rRNA gene, clone WIM27	AM114814.1	1786	556	962	22.78835	562	4.00E-156	378/411	91	15/411	3	Plus	Plus
Uncultured Amoebozoa	400	1	400	100	Uncultured Amoebozoa clone Ivry07 18S ribosomal RNA gene, partial sequence	FJ577811.1	1861	501	901	21.54756	728	0	399/401	99	1/401	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone LEMD083 small subunit ribosomal RNA gene, partial sequence	AF372740.1	1273	183	582	31.42184	667	0	388/401	96	2/401	0	Plus	Plus
Cercomonas radiata	400	1	400	100	Cercomonas radiata strain xt134 18S ribosomal RNA gene, partial sequence	FJ790712.1	1768	508	907	22.62443	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured ochromonad	400	1	400	100	Uncultured ochromonad clone DDI36.fa small subunit ribosomal RNA gene, partial sequence	MK177605.1	1719	482	881	23.26934	651	0	387/403	96	6/403	1	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU778 small subunit ribosomal RNA gene, partial sequence	MK351138.1	387	1	378	97.67442	545	4.00E-151	355/383	92	8/383	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone DDI123.fa small subunit ribosomal RNA gene, partial sequence	MK177617.1	1710	483	882	23.39181	667	0	388/401	96	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone SLV_3GM2_44 18S ribosomal RNA gene, partial sequence	KT072161.1	1665	574	983	24.62462	688	0	399/410	97	10/410	2	Plus	Plus
Batrachospermum gelatinosum	400	1	400	100	Batrachospermum gelatinosum 18S ribosomal RNA gene, complete sequence	AF026045.1	1765	537	936	22.66289	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/ Total	Pct. (%)	Match/ Total	Pct. (%)	Query	Subject
Paracercomonas sp.	400	1	400	100	Paracercomonas sp. Panama101 18S ribosomal RNA gene, partial sequence	FJ790734.1	1694	454	853	23.61275	695	0	393/401	98	2/401	0	Plus	Plus
Lesquereusia spiralis	400	1	400	100	Lesquereusia spiralis clone JG10.98_d4 18S ribosomal RNA gene, partial sequence	JQ519508.1	873	161	577	47.76632	466	3.00E-127	366/418	87	19/418	4	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate AH57p78p118t23 18S ribosomal RNA gene, partial sequence	EU709251.1	954	498	902	42.45283	549	3.00E-152	375/410	91	15/410	3	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: SB10_2010	AB721051.1	1697	504	902	23.51208	654	0	385/400	96	1/400	0	Plus	Plus
Neocercomonas sp.	400	1	400	100	Neocercomonas sp. strain SF33_R_Tri small subunit ribosomal RNA gene, partial sequence	MG775599.1	1357	566	965	29.47679	739	0	400/400	100	0/400	0	Plus	Plus
AF274257 Glenodiniopsis	400	1	400	100	AF274257 Glenodiniopsis steinii strain NIES 463 small subunit ribosomal RNA gene, complete sequence	AF274257.1	1756	544	944	22.83599	662	0	387/401	96	1/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone c108 small subunit ribosomal RNA gene, partial sequence	MK946259.1	1241	28	427	32.23207	540	2.00E-149	370/406	91	12/406	2	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone G2_18E_51 16S ribosomal RNA gene, partial sequence	EF441984.1	900	53	455	44.77778	558	5.00E-155	375/408	91	13/408	3	Plus	Plus
Rhizophydium planktonicum	400	1	400	100	Rhizophydium planktonicum gene for 18S rRNA, partial sequence, strain: AstB5	LC176286.1	1658	490	890	24.18577	545	4.00E-151	370/405	91	9/405	2	Plus	Plus
Uncultured eukaryote	400	1	397	99.25	Uncultured eukaryote gene for 18S ribosomal RNA, complete sequence, clone: MPE2-13	AB695508.1	1923	551	943	20.43682	586	2.00E-163	375/401	93	12/401	2	Plus	Plus
Chlorococcum sp.	400	1	400	100	Chlorococcum sp. z1 small subunit ribosomal RNA gene, partial sequence	MK954470.1	1692	503	902	23.64066	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU404 small subunit ribosomal RNA gene, partial sequence	MK350764.1	398	1	381	95.72864	542	5.00E-150	355/384	92	7/384	1	Plus	Plus
Salpingoeca ventriosa	400	1	400	100	Salpingoeca ventriosa 18S ribosomal RNA gene, partial sequence	KJ631041.2	1421	382	783	28.28994	619	2.00E-173	384/406	94	10/406	2	Plus	Plus
Uncultured eukaryotic	400	1	400	100	Uncultured eukaryotic picoplankton clone P34.6 18S ribosomal RNA gene, partial sequence	AY642710.1	1346	552	953	29.86627	597	1.00E-166	381/407	93	12/407	2	Plus	Plus
SAU43296 Styrax	400	1	400	100	SAU43296 Styrax americana 18S rRNA gene, partial sequence	U43296.1	1784	545	943	22.36547	732	0	399/400	99	1/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	932	23.18757	403	3.00E-108	350/411	85	19/411	4	Plus	Plus
Uncultured Chytridiales	400	1	400	100	Uncultured Chytridiales gene for 18S ribosomal RNA, partial sequence, clone: Jp13Ch04E	AB971029.1	1924	358	761	20.99792	593	1.00E-165	379/406	93	8/406	1	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone C4_26 18S ribosomal RNA gene, partial sequence	KT272646.1	1076	420	822	37.45353	697	0	396/404	98	5/404	1	Plus	Plus
Spumella sp.	400	1	400	100	Spumella sp. 18S rDNA gene, isolate 15G	AJ236857.1	1709	476	875	23.4055	662	0	388/402	96	4/402	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JKSAS 18S ribosomal RNA gene, partial sequence	GU920711.1	484	48	448	82.85124	601	8.00E-168	378/403	93	5/403	1	Plus	Plus
Uncultured Banisveld	400	1	400	100	Uncultured Banisveld eukaryote clone P4-3m5 18S ribosomal RNA gene, partial sequence	EU091865.1	1417	561	960	28.22865	723	0	397/400	99	0/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	930	23.0725	540	2.00E-149	371/407	91	13/407	3	Plus	Plus
Uncultured eukaryote	400	1	397	99.25	Uncultured eukaryote clone F5K2Q4C04IJ0ZS 18S ribosomal RNA gene, partial sequence	GU918801.1	513	110	513	78.75244	435	9.00E-118	354/409	86	17/409	4	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Humidophila australis	400	1	400	100	Humidophila australis clone FLB08 18S ribosomal RNA gene, partial sequence	KM116120.1	1582	540	943	25.53729	676	0	394/406	97	8/406	1	Plus	Plus
Uncultured MAST-12	400	1	400	100	Uncultured MAST-12 related heterokont clone PRS2_4E_2 18S ribosomal RNA gene, partial sequence	GQ330588.1	1452	438	835	27.41047	616	3.00E-172	379/401	94	4/401	0	Plus	Plus
Ochromonadaceae environmental	400	1	400	100	Ochromonadaceae environmental sample clone Amb_18S_1146 18S ribosomal RNA gene, partial sequence	EF023544.1	1805	563	969	22.54848	584	8.00E-163	383/412	92	17/412	4	Plus	Plus
Lobosea sp.	400	1	400	100	Lobosea sp. Mb_5C gene for 18S ribosomal RNA, partial sequence	AB425950.1	1891	555	953	21.09995	726	0	398/400	99	1/400	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU678 small subunit ribosomal RNA gene, partial sequence	MK351038.1	390	1	379	97.17949	556	2.00E-154	360/386	93	13/386	3	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone w641 small subunit ribosomal RNA gene, partial sequence	MK946305.1	1058	478	877	37.80718	634	8.00E-178	385/404	95	8/404	1	Plus	Plus
AF123285 Chromulina	400	1	400	100	AF123285 Chromulina nebulosa small subunit ribosomal RNA gene, partial sequence	AF123285.1	1777	547	946	22.50985	712	0	396/401	98	2/401	0	Plus	Plus
Saccamoeba sp.	400	1	400	100	Saccamoeba sp. POHL gene for 18S ribosomal RNA, partial sequence	LC272072.1	1933	580	979	20.69322	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured Cryptomonadaceae	400	1	400	100	Uncultured Cryptomonadaceae gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.4-86	AB749135.1	1860	460	863	21.72043	660	0	390/405	96	6/405	1	Plus	Plus
Uncultured Chytridiales	400	1	400	100	Uncultured Chytridiales gene for 18S ribosomal RNA, partial sequence, clone: Jp13Ch04E	AB971029.1	1924	358	758	20.842	640	2.00E-179	385/403	95	5/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1357 small subunit ribosomal RNA gene, partial sequence	MH009845.1	465	1	400	86.02151	562	4.00E-156	375/407	92	14/407	3	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate H61p80t17 18S ribosomal RNA gene, partial sequence	EU709279.1	1037	423	822	38.57281	606	2.00E-169	383/407	94	14/407	3	Plus	Plus
Pinnularia viridiformis	400	1	397	99.25	Pinnularia viridiformis 18S rRNA gene, strain AT-70.10	AM501985.1	1736	531	927	22.86866	678	0	387/397	97	0/397	0	Plus	Plus
Endogone lactiflua	400	1	400	100	Endogone lactiflua voucher MA59900-A 18S ribosomal RNA gene, partial sequence	KJ952221.1	1449	326	725	27.60524	645	0	383/400	95	0/400	0	Plus	Plus
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone 58c_65463 18S ribosomal RNA gene, partial sequence	KT816691.1	408	1	374	91.66667	680	0	373/375	99	1/375	0	Plus	Plus
Chlorella sorokiniana	400	1	400	100	Chlorella sorokiniana strain IPPAS C-1 small subunit ribosomal RNA gene, partial sequence	MN160398.1	1581	524	923	25.30044	734	0	399/400	99	0/400	0	Plus	Plus
Chytriomycetes sp.	400	10	400	97.75	Chytriomycetes sp. isolate TXST041 small subunit ribosomal RNA gene, partial sequence	MG979837.1	844	1	391	46.32701	573	2.00E-159	369/396	93	10/396	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JKSAS 18S ribosomal RNA gene, partial sequence	GU920711.1	484	48	447	82.64463	667	0	388/401	96	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone DDI211.fa small subunit ribosomal RNA gene, partial sequence	MK177631.1	1724	482	885	23.43387	440	2.00E-119	360/415	86	26/415	6	Plus	Plus
Uncultured ascomycete	400	1	400	100	Uncultured ascomycete isolate dfmo4345.088 18S ribosomal RNA gene, partial sequence	AY969296.1	732	567	168	54.64481	701	0	394/401	98	2/401	0	Plus	Minus
Uncultured Granofilosea	400	1	400	100	Uncultured Granofilosea clone C4CL131 18S ribosomal RNA gene, partial sequence	KY991049.1	667	80	458	56.82159	486	2.00E-133	360/402	89	25/402	6	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	922	22.6122	455	7.00E-124	357/407	87	21/407	5	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: ABC2_H06	AB572139.1	676	140	544	59.91124	505	7.00E-139	369/412	89	19/412	4	Plus	Plus
Uncultured cercozoan	400	21	400	95	Uncultured cercozoan clone OTU_728 18S ribosomal RNA gene, partial sequence	KU738517.1	388	1	385	99.2268	418	9.00E-113	340/392	86	19/392	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone 384-O9 18S ribosomal RNA gene, partial sequence	EF586162.1	675	248	646	59.11111	704	0	394/400	98	1/400	0	Plus	Plus
Desmarella moniliformis	400	1	400	100	Desmarella moniliformis 18S ribosomal RNA gene, partial sequence	AF084231.1	1764	513	912	22.67574	501	9.00E-138	368/411	89	22/411	5	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone F2_4 18S ribosomal RNA gene, partial sequence	KT272672.1	1062	411	810	37.66478	717	0	396/400	99	0/400	0	Plus	Plus
Anystis sp.	400	1	400	100	Anystis sp. AD1012 voucher UMMZ BMOC 07-0815-012 AD1012 18S ribosomal RNA gene, partial sequence	KY922145.1	1771	553	952	22.58611	739	0	400/400	100	0/400	0	Plus	Plus
Miracula moenusica	400	1	400	100	Miracula moenusica small subunit ribosomal RNA gene, partial sequence	MK239934.1	795	66	463	50.06289	665	0	389/402	96	6/402	1	Plus	Plus
Uncultured Halamphora	400	1	400	100	Uncultured Halamphora clone OTU-20-137 small subunit ribosomal RNA gene, partial sequence	MK656307.1	411	1	398	96.83698	632	3.00E-177	381/400	95	2/400	0	Plus	Plus
Phaeobotrys solitaria	400	1	400	100	Phaeobotrys solitaria partial 18S rRNA gene, strain SAG 15.95	AM490833.1	1739	518	913	22.77171	647	0	385/401	96	6/401	1	Plus	Plus
Stichotrichia sp.	400	1	400	100	Stichotrichia sp. cOmb1 partial 18S rRNA gene, isolate cOmb1	LN870128.1	1107	456	855	36.13369	739	0	400/400	100	0/400	0	Plus	Plus
uncultured ciliate	400	1	400	100	uncultured ciliate genomic DNA sequence contains 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, isolate 3ZS18	LR025746.1	2832	488	886	14.08898	521	7.00E-144	369/408	90	17/408	4	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone DDI211.fa small subunit ribosomal RNA gene, partial sequence	MK177631.1	1724	482	893	23.89791	464	1.00E-126	367/419	87	26/419	6	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone 384-O19 18S ribosomal RNA gene, partial sequence	EF586154.1	748	247	653	54.41176	551	9.00E-153	376/411	91	15/411	3	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S ribosomal RNA, partial sequence, clone: JP13E05E	AB971046.1	808	331	730	49.50495	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone 2_6 18S small subunit ribosomal RNA gene, partial sequence	MH249197.1	548	22	398	68.79562	412	4.00E-111	350/405	86	33/405	8	Plus	Plus
Holtermanniella nyarrowii	400	1	400	100	Holtermanniella nyarrowii CBS 8804 18S rRNA gene, partial sequence; from TYPE material	NG_062953.1	1653	496	895	24.19843	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured MAST-12	400	1	400	100	Uncultured MAST-12 related heterokont clone PRS2_4E_2 18S ribosomal RNA gene, partial sequence	GQ330588.1	1452	438	836	27.47934	638	6.00E-179	382/400	95	1/400	0	Plus	Plus
Pteridomonas sp.	400	1	400	100	Pteridomonas sp. strain IOW122 18S ribosomal RNA gene, complete sequence	KX431480.1	1175	473	872	34.04255	689	0	392/401	97	2/401	0	Plus	Plus
Uncultured Trinematidae	400	1	400	100	Uncultured Trinematidae clone A_25 18S ribosomal RNA gene, partial sequence	KT272601.1	1065	412	812	37.65258	723	0	398/401	99	1/401	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU88 small subunit ribosomal RNA gene, partial sequence	MK350448.1	389	1	380	97.68638	702	0	380/380	100	0/380	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Unfilt_WallB07 18S ribosomal RNA gene, partial sequence	GQ247249.1	941	4	403	42.50797	712	0	395/400	98	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eustigmatophyte	400	1	400	100	Uncultured eustigmatophyte clone Amb_18S_1095 18S ribosomal RNA gene, partial sequence	EF023502.1	1794	561	961	22.35229	667	0	390/403	96	5/403	1	Plus	Plus
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone 13c_14096 18S ribosomal RNA gene, partial sequence	KT817400.1	427	1	364	85.2459	422	7.00E-114	332/379	87	19/379	5	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1017 18S ribosomal RNA gene, partial sequence	EF023442.1	1807	554	948	21.85944	468	9.00E-128	359/407	88	19/407	4	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Elev_18S_792 18S ribosomal RNA gene, partial sequence	EF024493.1	1766	551	950	22.65006	556	2.00E-154	375/408	91	16/408	3	Plus	Plus
Uncultured ciliate	400	1	390	97.5	Uncultured ciliate clone TiePCII_18 18S ribosomal RNA gene, partial sequence	KC513790.1	663	239	628	58.82353	682	0	383/390	98	0/390	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone S6-6 18S ribosomal RNA gene, partial sequence	JN547312.1	972	525	922	40.9465	649	0	385/401	96	4/401	0	Plus	Plus
Spumella sp.	400	1	400	100	Spumella sp. strain IOW86 18S ribosomal RNA gene, complete sequence	KX431506.1	1058	471	855	36.38941	514	1.00E-141	363/401	90	17/401	4	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU678 small subunit ribosomal RNA gene, partial sequence	MK351038.1	390	1	376	96.41026	399	3.00E-107	334/388	86	20/388	5	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone 18s3-20 18S ribosomal RNA gene, partial sequence	EU733605.1	1036	547	937	37.74131	558	5.00E-155	371/402	92	13/402	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, complete sequence, clone: MPE2-31	AB695525.1	1759	545	944	22.74019	590	2.00E-164	376/403	93	6/403	1	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote clone AMD_18S_OTUa_6198 small subunit ribosomal RNA gene, partial sequence	MK003947.1	400	1	380	95	580	1.00E-161	361/383	94	6/383	1	Plus	Plus
Uncultured eukaryote	400	21	396	94	Uncultured eukaryote isolate OTU234 small subunit ribosomal RNA gene, partial sequence	MK350594.1	376	1	376	100	606	2.00E-169	364/380	95	8/380	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JKSAS 18S ribosomal RNA gene, partial sequence	GU920711.1	484	48	447	82.64463	617	8.00E-173	380/402	94	4/402	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1191 small subunit ribosomal RNA gene, partial sequence	MH009679.1	414	1	399	96.37681	422	7.00E-114	355/412	86	25/412	6	Plus	Plus
Uncultured Chytridiomycota	400	1	397	99.25	Uncultured Chytridiomycota clone T1P1AeC08 18S ribosomal RNA gene, partial sequence	GQ995417.1	1746	556	952	22.73769	645	0	383/399	95	4/399	1	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota isolate E109_09H 18S ribosomal RNA gene, partial sequence	KC561948.1	1725	545	941	23.01449	569	2.00E-158	373/403	92	9/403	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, complete sequence, clone: MPE2-31	AB695525.1	1759	545	944	22.74019	479	4.00E-131	359/406	88	12/406	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: A_3_62	AB534338.1	1604	518	917	24.93766	739	0	400/400	100	0/400	0	Plus	Plus
Amoebozoa sp.	400	1	400	100	Amoebozoa sp. amR1 18S ribosomal RNA gene, partial sequence	JX312793.1	1689	567	967	23.74186	490	2.00E-134	363/408	88	15/408	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H19.9 18S ribosomal RNA gene, partial sequence	AY749485.1	1624	554	956	24.81527	680	0	394/405	97	7/405	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	21	392	93	Uncultured eukaryote clone 4-MSTAREuk:4 small subunit ribosomal RNA gene, partial sequence	MG418719.1	366	1	366	100	449	3.00E-122	336/378	88	18/378	4	Plus	Plus
Uncultured Perkinsea	400	1	400	100	Uncultured Perkinsea clone PR2_3E_17 18S ribosomal RNA gene, partial sequence	GQ330637.1	1447	446	845	27.6434	712	0	395/400	98	0/400	0	Plus	Plus
Paracercomonas sp.	400	1	400	100	Paracercomonas sp. strain SF68_R_Pla small subunit ribosomal RNA gene, partial sequence	MG775636.1	1807	566	965	22.13614	640	2.00E-179	383/401	95	2/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P346 small subunit ribosomal RNA gene, partial sequence	MH008834.1	446	1	401	89.91031	617	8.00E-173	381/403	94	5/403	1	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU246 small subunit ribosomal RNA gene, partial sequence	MK350606.1	401	1	382	95.26185	665	0	375/382	98	2/382	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Elev_18S_982 18S ribosomal RNA gene, partial sequence	EF024655.1	1837	571	969	21.7202	693	0	394/402	98	5/402	1	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Elev_18S_1517 18S ribosomal RNA gene, partial sequence	EF024971.1	2014	668	1067	19.86097	612	4.00E-171	380/403	94	6/403	1	Plus	Plus
Cercozoa environmental	400	1	400	100	Cercozoa environmental sample clone Elev_18S_1314 18S ribosomal RNA gene, partial sequence	EF024680.1	1789	554	953	22.35886	507	2.00E-139	362/404	89	8/404	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H4.1 18S ribosomal RNA gene, partial sequence	AY749524.1	1605	540	944	25.23364	638	6.00E-179	387/406	95	7/406	1	Plus	Plus
Cercozoa sp.	400	1	400	100	Cercozoa sp. ATCC 50530 18S small subunit ribosomal RNA gene, partial sequence	HQ121439.1	1748	501	900	22.8833	673	0	389/401	97	2/401	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: ABC1_B04	AB572094.1	677	131	536	59.97046	568	9.00E-158	377/409	92	12/409	2	Plus	Plus
Uncultured eukaryote	400	21	385	91.25	Uncultured eukaryote isolate OTU462 small subunit ribosomal RNA gene, partial sequence	MK350822.1	365	1	365	100	675	0	365/365	100	0/365	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone C07_SE1A 18S ribosomal RNA gene, partial sequence	FJ592330.1	1080	4	407	37.40741	472	7.00E-129	362/411	88	18/411	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, partial sequence, clone: Ngk_seed-8_24	LC150102.1	1730	521	920	23.12139	734	0	399/400	99	0/400	0	Plus	Plus
Amoebidium sp.	400	1	400	100	Amoebidium sp. TN-27-W4 18S ribosomal RNA gene, partial sequence	KT595069.1	1658	499	897	24.06514	483	3.00E-132	362/408	88	17/408	4	Plus	Plus
Uncultured Blastocladiomycota	400	58	400	85.75	Uncultured Blastocladiomycota clone CR73P5E10 18S ribosomal RNA gene, partial sequence	GU810777.1	476	1	343	72.05882	556	2.00E-154	329/343	95	0/343	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Elev_18S_1414 18S ribosomal RNA gene, partial sequence	EF024885.1	1783	560	959	22.4341	712	0	395/400	98	0/400	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone t243 small subunit ribosomal RNA gene, partial sequence	MK946120.1	1032	562	962	38.85659	728	0	399/401	99	1/401	0	Plus	Plus
Brassica napus	400	1	400	100	Brassica napus var. napus clone 92_2 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, internal transcribed spacer 2, and 26S ribosomal RNA gene, complete sequence	KX709373.1	5818	568	967	6.875215	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU404 small subunit ribosomal RNA gene, partial sequence	MK350764.1	398	1	382	95.9799	544	1.00E-150	356/385	92	8/385	2	Plus	Plus
Phryganella paradoxa	400	1	400	100	Phryganella paradoxa isolate KD1032 18S ribosomal RNA gene, partial sequence	MF497378.1	3892	567	959	10.09764	621	6.00E-174	383/403	95	13/403	3	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S rRNA, partial sequence, clone: SB9_2010	AB721050.1	1670	508	907	23.9521	717	0	396/400	99	0/400	0	Plus	Plus
Ciliophora sp.	400	1	400	100	Ciliophora sp. aOmb2 sp. partial 18S rRNA gene, isolate aOmb2 Unknown ciliate	LN869948.1	1184	539	938	33.78378	667	0	388/401	96	2/401	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Amb_18S_1440 18S ribosomal RNA gene, partial sequence	EF023971.1	1863	633	1034	21.5781	597	1.00E-166	380/406	93	10/406	2	Plus	Plus
Ciliophora sp.	400	1	400	100	Ciliophora sp. aOmb2 sp. partial 18S rRNA gene, isolate aOmb2 Unknown ciliate	LN869948.1	1184	539	939	33.86824	584	8.00E-163	376/404	93	7/404	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, complete sequence, clone: MPE1-29	AB695472.1	1770	548	947	22.59887	701	0	393/400	98	0/400	0	Plus	Plus
Stichotrichia sp.	400	1	400	100	Stichotrichia sp. 2 cPFEU1 partial 18S rRNA gene, isolate cPFEU1	LN870140.1	913	254	653	43.81161	673	0	388/400	97	0/400	0	Plus	Plus
Vannella planctonica	400	1	400	100	Vannella planctonica strain A2FBB small subunit ribosomal RNA gene, partial sequence	KP719193.1	1582	510	909	25.28445	623	2.00E-174	385/406	94	12/406	2	Plus	Plus
Diaporthe amygdali	400	1	400	100	Diaporthe amygdali isolate C8SA20 18S ribosomal RNA gene, partial sequence	MH051014.1	1055	506	905	37.91469	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured Lobosea	400	1	398	99.5	Uncultured Lobosea clone CV1_B1_92 small subunit ribosomal RNA gene, partial sequence	AY821961.1	1519	416	813	26.20145	614	1.00E-171	380/402	94	8/402	1	Plus	Plus

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Didymium squamulosum	400	10	400	97.75	Didymium squamulosum partial 18S rRNA gene, strain Cr10	HE614613.2	3226	1162	1550	12.05828	538	7.00E-149	364/397	91	14/397	3	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone z88 small subunit ribosomal RNA gene, partial sequence	MK946204.1	1150	547	947	34.86957	396	4.00E-106	352/414	85	27/414	6	Plus	Plus
Uncultured bicosoecid	400	1	400	100	Uncultured bicosoecid clone PR2_3E_73 18S ribosomal RNA gene, partial sequence	GQ330587.1	1444	446	845	27.70083	617	8.00E-173	381/403	94	6/403	1	Plus	Plus
Uncultured Cryptomycota	400	1	400	100	Uncultured Cryptomycota clone CES507_11 18S ribosomal RNA gene, partial sequence	KP096164.1	1645	537	935	24.25532	693	0	393/401	98	3/401	0	Plus	Plus
AF274257 Glenodiniopsis	400	1	400	100	AF274257 Glenodiniopsis steinii strain NIES 463 small subunit ribosomal RNA gene, complete sequence	AF274257.1	1756	544	957	23.57631	636	2.00E-178	393/414	94	14/414	3	Plus	Plus
Uncultured Chytridiales	400	1	400	100	Uncultured Chytridiales gene for 18S ribosomal RNA, partial sequence, clone: Jp13Ch04E	AB971029.1	1924	358	758	20.842	534	9.00E-148	368/405	90	9/405	2	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate AH58p78p118t24 18S ribosomal RNA gene, partial sequence	EU709165.1	1172	466	864	34.04437	665	0	387/400	96	1/400	0	Plus	Plus
Pterocystis sp.	400	1	400	100	Pterocystis sp. NZ 18S ribosomal RNA gene, partial sequence	AY749610.1	1576	538	923	24.49239	610	1.00E-170	379/400	94	14/400	3	Plus	Plus
Unicellular eukaryote	400	57	400	86	Unicellular eukaryote sp. A10 18S ribosomal RNA gene, partial sequence	EU273828.1	525	1	344	65.52381	636	2.00E-178	344/344	100	0/344	0	Plus	Plus
Spironema cf.	400	1	400	100	Spironema cf. multiciliatum isolate BW2 small subunit ribosomal RNA gene, partial sequence	MF682190.1	1387	194	591	28.69503	577	1.00E-160	375/404	92	10/404	2	Plus	Plus
Hyaloraphidium curvatum	400	1	400	100	Hyaloraphidium curvatum 18S rRNA gene	NG_017172.1	1796	562	961	22.27171	628	4.00E-176	385/405	95	10/405	2	Plus	Plus

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Asterarcys quadricellulare	400	1	400	100	Asterarcys quadricellulare isolate a1 small subunit ribosomal RNA gene, partial sequence	MN179327.1	1028	496	895	38.91051	739	0	400/400	100	0/400	0	Plus	Plus
Cercozoa sp.	400	1	400	100	Cercozoa sp. W36p59t2LS 18S ribosomal RNA gene, partial sequence	EU709153.1	1564	474	865	25.06394	544	1.00E-150	370/404	91	16/404	3	Plus	Plus
Uncultured Micronuclearia	400	1	399	99.75	Uncultured Micronuclearia sp. clone DDI50.fa small subunit ribosomal RNA gene, partial sequence	MK177607.1	1711	484	874	22.85213	409	5.00E-110	349/407	85	24/407	5	Plus	Plus
Uncultured labyrinthulid	400	1	400	100	Uncultured labyrinthulid clone CV1_B1_3 small subunit ribosomal RNA gene, partial sequence	AY821979.1	1632	452	848	24.32598	542	5.00E-150	368/403	91	9/403	2	Plus	Plus
Salpingoeca ventriosa	400	1	400	100	Salpingoeca ventriosa 18S ribosomal RNA gene, partial sequence	KJ631041.2	1421	382	767	27.16397	577	1.00E-160	375/402	93	18/402	4	Plus	Plus
Cladochytrium replicatum	400	1	400	100	Cladochytrium replicatum isolate JEL 303 18S small subunit ribosomal RNA gene, partial sequence	EU828461.1	839	410	809	47.6758	728	0	398/400	99	0/400	0	Plus	Plus
Phaenocora sp.	400	1	400	100	Phaenocora sp. n. NVS-2013 isolate UH262.1 18S ribosomal RNA gene, partial sequence	KC529493.1	1806	557	957	22.20377	701	0	394/401	98	1/401	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus gene for 18S rRNA, partial sequence, clone: A_3_27	AB534324.1	1609	526	925	24.86016	723	0	397/400	99	0/400	0	Plus	Plus
Falcicyclidium attractodes	400	1	400	100	Falcicyclidium attractodes isolate FXP08061106 small subunit ribosomal RNA gene, partial sequence	FJ868182.1	1761	557	956	22.71437	540	2.00E-149	370/406	91	12/406	2	Plus	Plus
Uncultured ciliate	400	1	400	100	Uncultured ciliate clone NPS05-67 18S ribosomal RNA gene gene, partial sequence	DQ115952.1	670	242	641	59.70149	501	9.00E-138	364/407	89	14/407	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JCA7R 18S ribosomal RNA gene, partial sequence	GU922888.1	529	122	521	75.61437	590	2.00E-164	378/405	93	10/405	2	Plus	Plus

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Cochliopodium kielense	400	1	400	100	Cochliopodium kielense clone 9601 18S ribosomal RNA gene, partial sequence	KJ569725.1	2159	574	970	18.38814	652	0	387/402	96	7/402	1	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU502 small subunit ribosomal RNA gene, partial sequence	MK350862.1	386	1	381	98.70466	586	2.00E-163	364/385	94	9/385	2	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone l506 small subunit ribosomal RNA gene, partial sequence	MK946346.1	1186	545	947	33.97976	586	2.00E-163	379/407	93	11/407	2	Plus	Plus
Neocercomonas sp.	400	1	400	100	Neocercomonas sp. strain SF31_R_Tri small subunit ribosomal RNA gene, partial sequence	MG775619.1	1378	514	913	29.02758	590	2.00E-164	378/405	93	10/405	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: ABC1_B02	AB572095.1	668	127	526	59.88024	556	2.00E-154	371/404	91	8/404	1	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone 4-5.6 small subunit ribosomal RNA gene, partial sequence	AY620260.1	1260	539	937	31.66667	665	0	388/401	96	3/401	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU304 small subunit ribosomal RNA gene, partial sequence	MK350664.1	391	1	380	97.1867	470	2.00E-128	345/387	89	14/387	3	Plus	Plus
Uncultured cryptophyte	400	1	400	100	Uncultured cryptophyte clone STFeb_111 18S ribosomal RNA gene, partial sequence	HM135070.1	1702	515	914	23.50176	684	0	390/400	97	0/400	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater cercozoan clone PCG3AU2004 18S ribosomal RNA gene, partial sequence	DQ244001.1	1819	564	965	22.10005	719	0	398/402	99	2/402	0	Plus	Plus
Uncultured Rhizaria	400	1	400	100	Uncultured Rhizaria clone F.18_320 18S ribosomal RNA gene, partial sequence	KP685359.1	1142	563	968	35.55166	468	9.00E-128	363/413	87	20/413	4	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate AH48p78p118t19 18S ribosomal RNA gene, partial sequence	EU709217.1	1189	483	884	33.80992	531	1.00E-146	370/408	90	14/408	3	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Leptosorella sp.	400	1	400	100	Leptosorella sp. SK-2019a voucher SRWD14b small subunit ribosomal RNA gene, partial sequence	MK659774.1	1047	491	881	37.34479	564	1.00E-156	373/403	92	15/403	3	Plus	Plus
Mallomonas torquata	400	1	400	100	Mallomonas torquata strain Yoonnae2030610F 18S ribosomal RNA gene, partial sequence	KM817887.1	1694	517	916	23.61275	706	0	394/400	98	0/400	0	Plus	Plus
Phryganella paradoxa	400	1	400	100	Phryganella paradoxa isolate KD1032 18S ribosomal RNA gene, partial sequence	MF497378.1	3892	567	966	10.27749	662	0	388/402	96	4/402	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote clone 7-MSTAREuk:6 small subunit ribosomal RNA gene, partial sequence	MG418762.1	384	1	379	98.69792	601	8.00E-168	362/380	95	1/380	0	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone T6P2AeE08 18S ribosomal RNA gene, partial sequence	GQ995426.1	1770	559	958	22.59887	717	0	396/400	99	0/400	0	Plus	Plus
Uncultured ciliate	400	1	400	100	Uncultured ciliate clone NPS20-27 18S ribosomal RNA gene gene, partial sequence	DQ115946.1	669	243	642	59.79073	612	4.00E-171	381/404	94	8/404	1	Plus	Plus
Uncultured eukaryote	400	2	400	99.75	Uncultured eukaryote clone SHBF615 18S ribosomal RNA gene, partial sequence	HQ869641.1	932	21	416	42.48927	634	8.00E-178	383/401	95	7/401	1	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone T6P2AeG07 18S ribosomal RNA gene, partial sequence	GQ995418.1	1766	563	962	22.65006	590	2.00E-164	378/405	93	10/405	2	Plus	Plus
Papiliotrema flavescens	400	1	400	100	Papiliotrema flavescens CBS 942 18S rRNA gene, partial sequence; from TYPE material	NG_062616.1	1782	545	944	22.44669	739	0	400/400	100	0/400	0	Plus	Plus
Archerella flavum	400	1	400	100	Archerella flavum isolate BC-4 small subunit ribosomal RNA gene, partial sequence	KC245094.1	1278	555	961	31.84664	468	9.00E-128	370/420	88	33/420	7	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU678 small subunit ribosomal RNA gene, partial sequence	MK351038.1	390	1	379	97.17949	540	2.00E-149	353/382	92	5/382	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H7.1 18S ribosomal RNA gene, partial sequence	AY749492.1	1571	551	953	25.65245	614	1.00E-171	385/408	94	13/408	3	Plus	Plus
Leptophrys vorax	400	1	400	100	Leptophrys vorax partial 18S rRNA gene, strain LV.03	HE609038.1	1572	437	836	25.44529	723	0	397/400	99	0/400	0	Plus	Plus
Glomeraceae sp.	400	1	400	100	Glomeraceae sp. isolate FJSAM3-11 small subunit ribosomal RNA gene, partial sequence	MK592776.1	759	221	620	52.70092	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H05_SE4A 18S ribosomal RNA gene, partial sequence	FJ592448.1	1083	4	403	36.93444	734	0	399/400	99	0/400	0	Plus	Plus
Eocercomonas sp.	400	1	400	100	Eocercomonas sp. HFCC 907 18S ribosomal RNA gene, partial sequence	HM536152.1	1799	559	958	22.23457	739	0	400/400	100	0/400	0	Plus	Plus
Chytriomycetes sp.	400	1	400	100	Chytriomycetes sp. JEL165 18S small subunit ribosomal RNA gene, partial sequence	AY349034.1	965	479	878	41.45078	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	392	98	Uncultured eukaryote clone F5K2Q4C04IFTAT 18S ribosomal RNA gene, partial sequence	GU922502.2	506	83	473	77.27273	584	8.00E-163	371/396	93	9/396	2	Plus	Plus
Haptoglossa zoospora	400	1	400	100	Haptoglossa zoospora gene for 18S ribosomal RNA, partial sequence, strain: Y11	AB425201.1	1739	515	914	23.00173	723	0	397/400	99	0/400	0	Plus	Plus
Uncultured Chaetoceros	400	19	400	95.5	Uncultured Chaetoceros clone OTU541 small subunit ribosomal RNA gene, partial sequence	MH023058.1	405	1	382	94.32099	695	0	380/382	99	0/382	0	Plus	Plus
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone 53c_51339 18S ribosomal RNA gene, partial sequence	KT818490.1	439	1	376	85.6492	544	1.00E-150	353/380	92	9/380	2	Plus	Plus

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Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: A_3_45	AB534330.1	1639	536	935	24.40513	734	0	399/400	99	0/400	0	Plus	Plus
Fisculla terrestris	400	1	400	100	Fisculla terrestris 18S ribosomal RNA gene, partial sequence	KT809356.1	1750	526	925	22.85714	695	0	393/401	98	2/401	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus gene for 18S rRNA, partial sequence, clone: A_3_27	AB534324.1	1609	526	927	24.98446	603	2.00E-168	379/404	93	6/404	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H22.4 18S ribosomal RNA gene, partial sequence	AY749539.1	1586	540	939	25.22068	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Elev_18S_5731 18S ribosomal RNA gene, partial sequence	EF025015.1	1805	569	973	22.43767	704	0	398/405	98	5/405	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P915 small subunit ribosomal RNA gene, partial sequence	MH009403.1	419	1	400	95.46539	667	0	388/401	96	2/401	0	Plus	Plus
Micronuclearia podoventralis	400	1	400	100	Micronuclearia podoventralis small subunit ribosomal RNA gene, partial sequence	AY268038.1	1731	526	929	23.33911	616	3.00E-172	383/406	94	8/406	1	Plus	Plus
Thalassomyxa sp.	400	1	400	100	Thalassomyxa sp. MValx small subunit ribosomal RNA gene, partial sequence	KC779515.1	1801	556	958	22.37646	608	5.00E-170	380/404	94	5/404	1	Plus	Plus
Sellaphora pupula	400	1	400	100	Sellaphora pupula partial 18S rRNA gene, strain SM-BLCAP	AJ544653.1	1713	504	903	23.35085	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	19	400	95.5	Uncultured eukaryote clone FrR6 18S ribosomal RNA gene, partial sequence	JF317707.1	613	1	381	62.15334	676	0	377/382	98	1/382	0	Plus	Plus
AF293895 Echinamoeba	400	1	400	100	AF293895 Echinamoeba exundans small subunit ribosomal RNA gene, complete sequence	AF293895.1	1827	576	974	21.83908	632	3.00E-177	383/402	95	5/402	1	Plus	Plus
Cercozoa sp.	400	1	400	100	Cercozoa sp. BSP1 18S ribosomal RNA gene, partial sequence	EU709238.1	1062	487	884	37.47646	616	3.00E-172	381/403	94	8/403	1	Plus	Plus

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Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Cn-St.3-85	AB749134.1	1677	460	860	23.91175	734	0	400/401	99	1/401	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: AD_Nclone27	LC109043.1	1750	552	948	22.68571	603	2.00E-168	377/401	94	5/401	1	Plus	Plus
Pisidium walkeri	400	1	400	100	Pisidium walkeri voucher BivAToL-303 18S ribosomal RNA gene, partial sequence	KX713334.1	1781	557	956	22.45929	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone HA001 18S ribosomal RNA gene, partial sequence	HM487046.1	1355	247	646	29.5203	534	9.00E-148	367/404	90	8/404	1	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone PFA12AU2004 18S ribosomal RNA gene, partial sequence	DQ244011.1	1782	561	964	22.67116	538	7.00E-149	371/408	90	12/408	2	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone d208 small subunit ribosomal RNA gene, partial sequence	MK946234.1	1147	550	948	34.7864	649	0	384/400	96	1/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P176 small subunit ribosomal RNA gene, partial sequence	MH008664.1	426	1	387	90.84507	505	7.00E-139	365/405	90	23/405	5	Plus	Plus
Uncultured labyrinthulid	400	1	400	100	Uncultured labyrinthulid clone CV1_B1_3 small subunit ribosomal RNA gene, partial sequence	AY821979.1	1632	452	848	24.32598	569	2.00E-158	374/404	92	11/404	2	Plus	Plus
Uncultured Apusomonadidae	400	19	400	95.5	Uncultured Apusomonadidae clone OTU564 small subunit ribosomal RNA gene, partial sequence	MH023074.1	411	1	376	91.48418	573	2.00E-159	361/384	94	10/384	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone S6-6 18S ribosomal RNA gene, partial sequence	JN547312.1	972	525	924	41.15226	662	0	387/401	96	2/401	0	Plus	Plus
Nowakowskiella elegans	400	1	400	100	Nowakowskiella elegans strain BK50-1 18S ribosomal RNA genes, partial sequence	AH009042.2	1763	524	923	22.6886	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/ Total	Pct. (%)	Match/ Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1096 small subunit ribosomal RNA gene, partial sequence	MH009584.1	401	1	400	99.75062	717	0	396/400	99	0/400	0	Plus	Plus
Cercomonadida environmental	400	1	400	100	Cercomonadida environmental sample clone C3CL103 18S ribosomal RNA gene, partial sequence	KY991030.1	663	79	480	60.63348	532	3.00E-147	366/405	90	8/405	1	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	931	23.13003	497	1.00E-136	366/410	89	18/410	4	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone 9-4.6 small subunit ribosomal RNA gene, partial sequence	AY620294.1	1262	544	945	31.8542	680	0	392/403	97	4/403	0	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone T2P1AeA04 18S ribosomal RNA gene, partial sequence	GQ995409.1	1781	565	966	22.57159	664	0	388/402	96	2/402	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone c920 small subunit ribosomal RNA gene, partial sequence	MK946077.1	1305	549	948	30.65134	628	4.00E-176	381/401	95	2/401	0	Plus	Plus
Raphidiophrys heterophryoidea	400	1	400	100	Raphidiophrys heterophryoidea isolate 1009 18S ribosomal RNA gene, partial sequence	KU178912.1	1468	500	902	27.45232	564	1.00E-156	376/408	92	13/408	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JKSAS 18S ribosomal RNA gene, partial sequence	GU920711.1	484	48	445	82.2314	593	1.00E-165	377/403	93	8/403	1	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone h737 small subunit ribosomal RNA gene, partial sequence	MK946030.1	1172	532	938	34.72696	412	4.00E-111	355/415	85	23/415	5	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote 18S rRNA, partial sequence, clone: RM1-SGM27	AB505484.1	1882	559	941	20.35069	451	9.00E-123	356/405	87	27/405	6	Plus	Plus
Uncultured chrysophyte	400	1	400	100	Uncultured chrysophyte gene for 18S ribosomal RNA, partial sequence, clone: Pa-St.4-14	AB749063.1	1716	460	864	23.6014	665	0	392/406	96	7/406	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote gene for 18S ribosomal RNA, partial sequence, clone: JP13E05E	AB971046.1	808	331	722	48.51485	477	1.00E-130	363/409	88	26/409	6	Plus	Plus
Uncultured Chrysophyceae	400	1	400	100	Uncultured Chrysophyceae clone Boeck4 18S ribosomal RNA gene, partial sequence	MG674906.1	1715	494	893	23.32362	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured haptophyte	400	4	400	99.25	Uncultured haptophyte clone Finsevatn_APB2H 18S ribosomal RNA gene, partial sequence	JX453458.1	469	1	396	84.43497	704	0	392/397	98	1/397	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone y732 small subunit ribosomal RNA gene, partial sequence	MK946411.1	2013	581	981	19.92052	689	0	392/401	97	1/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone c920 small subunit ribosomal RNA gene, partial sequence	MK946077.1	1305	549	947	30.57471	399	3.00E-107	349/410	85	21/410	5	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone DDI211.fa small subunit ribosomal RNA gene, partial sequence	MK177631.1	1724	482	893	23.89791	448	1.00E-121	362/417	86	22/417	5	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG07-03 18S ribosomal RNA gene, partial sequence	AY919701.1	1735	530	931	23.17003	520	2.00E-143	369/409	90	16/409	3	Plus	Plus
Uncultured eukaryote	400	1	368	92	Uncultured eukaryote clone BR5.4 18S ribosomal RNA gene, partial sequence	JN547274.1	1010	563	930	36.43564	531	1.00E-146	344/371	92	6/371	1	Plus	Plus
Uncultured Micronuclearia	400	1	400	100	Uncultured Micronuclearia sp. clone DDI50.fa small subunit ribosomal RNA gene, partial sequence	MK177607.1	1711	484	884	23.43659	623	2.00E-174	382/403	94	5/403	1	Plus	Plus
Fusarium oxysporum	400	1	400	100	Fusarium oxysporum isolate FA4 small subunit ribosomal RNA gene, partial sequence	MK355439.1	1023	480	879	39.10068	739	0	400/400	100	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Monosiga ovata	400	1	400	100	Monosiga ovata 18S ribosomal RNA gene, partial sequence	AF271999.1	1800	566	965	22.22222	623	2.00E-174	382/403	94	6/403	1	Plus	Plus
Rhizamoeba neglecta	400	1	400	100	Rhizamoeba neglecta small subunit ribosomal RNA gene, partial sequence	KT945251.1	1677	570	958	23.19618	512	4.00E-141	367/406	90	23/406	5	Plus	Plus
Chlorophyta sp.	400	1	400	100	Chlorophyta sp. EP-2019 isolate 1 small subunit ribosomal RNA gene, partial sequence	MK929233.1	1149	523	922	34.81288	734	0	399/400	99	0/400	0	Plus	Plus
Aphanomyces cf.	400	1	400	100	Aphanomyces cf. repetans strain CBS 126887 18S ribosomal RNA gene, partial sequence	HQ384420.1	1039	507	908	38.69105	658	0	388/403	96	4/403	0	Plus	Plus
Stipa narynica	400	1	400	100	Stipa narynica voucher (KRA) S/74/1 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, internal transcribed spacer 2, and 26S ribosomal RNA gene, complete sequence; and 26S-18S ribosomal RNA intergenic spacer, partial sequence	KY826235.1	8844	569	968	4.52284	651	0	389/405	96	10/405	2	Plus	Plus
Uncultured bicosoecid	400	1	400	100	Uncultured bicosoecid clone PR2_3E_73 18S ribosomal RNA gene, partial sequence	GQ330587.1	1444	446	838	27.21607	577	1.00E-160	375/403	93	13/403	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone B47 18S ribosomal RNA gene, partial sequence	JN054668.1	1519	356	755	26.33311	673	0	388/400	97	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P298 small subunit ribosomal RNA gene, partial sequence	MH008786.1	436	1	398	91.2844	699	0	393/400	98	2/400	0	Plus	Plus
Haptophyta environmental	400	1	400	100	Haptophyta environmental samples clone CV1_B2_32 small subunit ribosomal RNA gene, partial sequence	AY821960.1	1807	499	898	22.13614	701	0	393/400	98	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured Sphenoderiidae	400	1	400	100	Uncultured Sphenoderiidae clone B2_2_2 18S ribosomal RNA gene, partial sequence	KT272627.1	1066	414	813	37.52345	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone SLV_3GJ1_36 18S ribosomal RNA gene, partial sequence	KT072119.1	1392	573	972	28.73563	645	0	383/400	95	0/400	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU304 small subunit ribosomal RNA gene, partial sequence	MK350664.1	391	1	376	96.16368	449	3.00E-122	342/387	88	18/387	4	Plus	Plus
Rhogostoma cylindrica	400	1	400	100	Rhogostoma cylindrica isolate KD1020 18S ribosomal RNA gene, partial sequence	KY905096.1	1635	502	906	24.77064	710	0	399/405	98	5/405	1	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU511 small subunit ribosomal RNA gene, partial sequence	MK350871.1	392	1	380	96.93878	564	1.00E-156	361/386	93	12/386	3	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG07-03 18S ribosomal RNA gene, partial sequence	AY919701.1	1735	530	931	23.17003	592	5.00E-165	380/407	93	12/407	2	Plus	Plus
Cryptococcus carnescens	400	1	400	100	Cryptococcus carnescens isolate C65 18S small subunit ribosomal RNA gene, partial sequence	DQ459618.1	841	324	723	47.56243	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured ciliate	400	1	400	100	Uncultured ciliate clone Alchichica_AQ1w_5E_41 small subunit ribosomal RNA gene, partial sequence	JN825651.1	971	456	855	41.19464	656	0	385/400	96	0/400	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone e949 small subunit ribosomal RNA gene, partial sequence	MK945923.1	1183	527	928	33.9814	580	1.00E-161	378/407	92	12/407	2	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote clone 8-MSTAReuk:12 small subunit ribosomal RNA gene, partial sequence	MG418784.1	481	1	380	79.00208	680	0	376/380	98	0/380	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured freshwater	400	1	399	99.75	Uncultured freshwater eukaryote clone LG07-03 18S ribosomal RNA gene, partial sequence	AY919701.1	1735	530	934	23.34294	521	7.00E-144	370/410	90	16/410	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone C07_SE1A 18S ribosomal RNA gene, partial sequence	FJ592330.1	1080	4	403	37.03704	496	4.00E-136	362/406	89	12/406	2	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater cercozoan clone PCG3AU2004 18S ribosomal RNA gene, partial sequence	DQ244001.1	1819	564	969	22.31996	556	2.00E-154	377/411	91	16/411	3	Plus	Plus
Uncultured ciliate	400	1	400	100	Uncultured ciliate clone NPS05-104 18S ribosomal RNA gene gene, partial sequence	DQ115942.1	670	243	642	59.70149	717	0	397/401	99	2/401	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	928	22.95742	499	3.00E-137	363/406	89	13/406	3	Plus	Plus
Chrysophyceae sp.	400	1	400	100	Chrysophyceae sp. CCMP381 18S ribosomal RNA gene, partial sequence	JX465727.1	1766	546	945	22.65006	734	0	399/400	99	0/400	0	Plus	Plus
Colpidium striatum	400	1	399	99.75	Colpidium striatum strain ASP_B 18S ribosomal RNA gene, partial sequence	MG589308.1	1697	530	928	23.51208	737	0	399/399	100	0/399	0	Plus	Plus
Dimorpha sp.	400	1	400	100	Dimorpha sp. ATCC PRA-54 18S small subunit ribosomal RNA gene, partial sequence	EF455769.1	1760	562	961	22.72727	634	8.00E-178	384/403	95	6/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone QCCC1ZA121 18S ribosomal RNA gene, partial sequence	KY355559.1	1064	180	579	37.59398	667	0	388/401	96	2/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone h40 small subunit ribosomal RNA gene, partial sequence	MK946264.1	1034	581	978	38.4913	599	3.00E-167	377/402	93	6/402	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: A_3_91	AB534347.1	1598	514	913	25.03129	717	0	397/401	99	2/401	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Neidium hitchcockii	400	1	400	100	Neidium hitchcockii voucher CANA:100021 C4R15 18S ribosomal RNA gene, partial sequence	KU674393.1	986	183	582	40.56795	662	0	388/402	96	4/402	0	Plus	Plus
Korotnevella foustae	400	1	400	100	Korotnevella foustae strain Sred2012 18S ribosomal RNA gene, partial sequence	KU535558.1	1840	570	967	21.63043	649	0	387/403	96	8/403	1	Plus	Plus
Uncultured microeukaryote	400	1	400	100	Uncultured microeukaryote clone 227Jun21_05G 18S ribosomal RNA gene, partial sequence	JN705517.1	1368	183	581	29.16667	649	0	386/402	96	5/402	1	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone T5P2AeB10 18S ribosomal RNA gene, partial sequence	GQ995435.1	1765	557	957	22.71955	617	8.00E-173	380/402	94	3/402	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H7.1 18S ribosomal RNA gene, partial sequence	AY749492.1	1571	551	955	25.77976	654	0	391/407	96	9/407	2	Plus	Plus
Pythium volutum	400	1	400	100	Pythium volutum strain CBS 699.83 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	AY598686.2	3932	538	937	10.17294	695	0	392/400	98	0/400	0	Plus	Plus
Goniomonas sp.	400	1	400	100	Goniomonas sp. SH-8 18S ribosomal RNA gene, partial sequence	AY705739.1	2046	565	968	19.74585	582	3.00E-162	379/408	92	12/408	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone WS071.015 18S ribosomal RNA gene, partial sequence	KP404647.1	1783	570	969	22.4341	645	0	385/402	95	4/402	0	Plus	Plus
Rhizophydiales sp.	400	1	400	100	Rhizophydiales sp. AF005 18S ribosomal RNA gene, partial sequence	GQ995447.1	1092	557	956	36.63004	689	0	392/401	97	2/401	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone TKR07M.83 18S ribosomal RNA gene, partial sequence	GU290103.1	1812	574	972	22.01987	604	7.00E-169	378/402	94	5/402	1	Plus	Plus
Lesquereusia spiralis	400	1	400	100	Lesquereusia spiralis clone JG10.98_d4 18S ribosomal RNA gene, partial sequence	JQ519508.1	873	161	570	46.96449	483	3.00E-132	363/411	88	12/411	2	Plus	Plus
Paraphysomonas sp.	400	1	400	100	Paraphysomonas sp. 1 JMS-2012 18S ribosomal RNA gene, partial sequence	JQ967309.1	1665	478	877	24.02402	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	21	400	95	Uncultured eukaryote isolate OTU470 small subunit ribosomal RNA gene, partial sequence	MK350830.1	400	1	381	95.25	641	5.00E-180	370/381	97	1/381	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone SLV_3GJ1_18 18S ribosomal RNA gene, partial sequence	KT072104.1	1809	578	979	22.22222	536	2.00E-148	369/406	90	10/406	2	Plus	Plus
Uncultured rhizosphere	400	1	400	100	Uncultured rhizosphere chytridiomycete partial 18S rRNA gene, clone RSC-CHU-18	AJ506000.1	1564	373	774	25.70332	647	0	389/406	95	10/406	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, complete sequence, clone: MPE2-31	AB695525.1	1759	545	945	22.79704	568	9.00E-158	372/403	92	5/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S rRNA, partial sequence, clone: ABC1_H06	AB572083.1	661	124	523	60.51437	734	0	399/400	99	0/400	0	Plus	Plus
Nematostelium ovatum	400	1	400	100	Nematostelium ovatum isolate JDS 6241 18S ribosomal RNA gene, partial sequence	FJ544420.1	1918	560	949	20.33368	409	5.00E-110	351/409	85	28/409	6	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone RT5iin20 18S ribosomal RNA gene, complete sequence	AY082981.1	1814	569	970	22.16097	625	5.00E-175	385/406	94	10/406	2	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate DB-2703-11 18S ribosomal RNA gene, partial sequence	EU567236.1	1053	442	841	37.9867	689	0	393/402	97	4/402	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone HAVOmat-euk49 18S ribosomal RNA gene, partial sequence	EF032800.1	1760	555	954	22.72727	701	0	394/401	98	2/401	0	Plus	Plus
Uncultured fungus	400	1	400	100	Uncultured fungus clone C48 18S ribosomal RNA gene, partial sequence	JN054679.1	1500	351	755	27	449	3.00E-122	357/410	87	15/410	3	Plus	Plus
Chrysamoeba tenera	400	1	400	100	Chrysamoeba tenera strain UTCC273 18S ribosomal RNA gene, partial sequence	EF165102.1	1717	534	933	23.29645	667	0	388/401	96	2/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone z88 small subunit ribosomal RNA gene, partial sequence	MK946204.1	1150	547	941	34.34783	507	2.00E-139	366/407	89	19/407	4	Plus	Plus
Vannella sp.	400	1	400	100	Vannella sp. RT3TT 18S ribosomal RNA gene, partial sequence	JQ271753.1	1564	557	956	25.57545	651	0	389/405	96	10/405	2	Plus	Plus
Uncultured eukaryote	400	16	400	96.25	Uncultured eukaryote clone QL506 18S ribosomal RNA gene, partial sequence	JN207880.1	860	1	385	44.76744	701	0	383/385	99	0/385	0	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone B1_92 18S ribosomal RNA gene, partial sequence	KT272649.1	1061	409	807	37.60603	599	3.00E-167	378/403	93	7/403	1	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone i398 small subunit ribosomal RNA gene, partial sequence	MK946317.1	1067	563	968	38.05061	501	9.00E-138	369/413	89	20/413	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04JKLNX 18S ribosomal RNA gene, partial sequence	GU922846.1	528	7	403	75.18939	586	2.00E-163	376/403	93	9/403	2	Plus	Plus
Uncultured eukaryote	400	6	400	98.75	Uncultured eukaryote clone SHBA607 18S ribosomal RNA gene, partial sequence	HQ869271.1	875	1	397	45.37143	521	7.00E-144	362/400	90	8/400	2	Plus	Plus
Uncultured eukaryote	400	16	400	96.25	Uncultured eukaryote clone FP973 18S ribosomal RNA gene, partial sequence	JN207867.1	853	1	385	45.13482	712	0	385/385	100	0/385	0	Plus	Plus

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Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured fungus	400	1	400	100	Uncultured fungus partial 18S rRNA gene, clone WIM27	AM114814.1	1786	556	958	22.56439	569	2.00E-158	376/407	92	11/407	2	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG03-03 18S ribosomal RNA gene, partial sequence	AY919687.1	1741	531	930	22.9753	540	2.00E-149	366/402	91	4/402	0	Plus	Plus
Korotnevelia stella	400	1	400	100	Korotnevelia stella clone 153.2_172.4 18S ribosomal RNA gene, complete sequence	KU681497.1	1874	581	977	21.18463	636	2.00E-178	384/402	95	7/402	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1357 small subunit ribosomal RNA gene, partial sequence	MH009845.1	465	1	403	86.66667	448	1.00E-121	363/416	87	29/416	6	Plus	Plus
Inocybe spuria	400	1	400	100	Inocybe spuria strain BK180809723 small subunit ribosomal RNA gene, partial sequence	MK429972.1	1736	516	915	23.04147	723	0	397/400	99	0/400	0	Plus	Plus
Lesquereusia spiralis	400	1	400	100	Lesquereusia spiralis clone JG10.98_d4 18S ribosomal RNA gene, partial sequence	JQ519508.1	873	161	540	43.52806	466	3.00E-127	354/400	88	20/400	5	Plus	Plus
Uncultured Perkinsea	400	1	400	100	Uncultured Perkinsea clone BIB5_B10 18S ribosomal RNA gene, partial sequence	KP122524.1	809	78	477	49.44376	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured Apusomonadidae	400	1	400	100	Uncultured Apusomonadidae clone Apu_SA-49 18S ribosomal RNA gene, partial sequence	KY077728.1	1790	530	929	22.34637	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone d208 small subunit ribosomal RNA gene, partial sequence	MK946234.1	1147	550	949	34.87358	645	0	385/402	95	4/402	0	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	929	23.01496	534	9.00E-148	370/407	90	14/407	3	Plus	Plus
Cladochytrium tenue	400	1	400	100	Cladochytrium tenue isolate GHJ CCIBt 4013 18S ribosomal RNA gene, partial sequence	KJ539144.1	1002	457	832	37.52495	457	2.00E-124	356/403	88	30/403	7	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Angulamoeba microcystivorans	400	1	396	99	Angulamoeba microcystivorans isolate A1WVB small subunit ribosomal RNA gene, partial sequence	HM017143.1	1714	435	832	23.22054	612	4.00E-171	377/399	94	4/399	1	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Elev_18S_1414 18S ribosomal RNA gene, partial sequence	EF024885.1	1783	560	948	21.81716	451	9.00E-123	356/406	87	23/406	5	Plus	Plus
Spumella-like flagellate	400	1	400	100	Spumella-like flagellate JBNZ40 18S ribosomal RNA gene, partial sequence	AY651091.1	1700	476	875	23.52941	739	0	400/400	100	0/400	0	Plus	Plus
Nuclearia pattersoni	400	1	397	99.25	Nuclearia pattersoni partial 18S rRNA gene, strain A2	LN875110.1	1970	567	947	19.3401	520	2.00E-143	362/398	90	18/398	4	Plus	Plus
Filamoeba nolandi	400	1	400	100	Filamoeba nolandi strain CCAP1526 small subunit ribosomal RNA gene, complete sequence	AY714368.1	1839	551	950	21.75095	706	0	394/400	98	0/400	0	Plus	Plus
Paracercomonas sp.	400	1	400	100	Paracercomonas sp. strain SF77_R_Poa small subunit ribosomal RNA gene, partial sequence	MG775639.1	1808	567	965	22.06858	582	3.00E-162	377/405	93	11/405	2	Plus	Plus
Salpingoeca amphoridium	400	1	400	100	Salpingoeca amphoridium 18S small subunit ribosomal RNA gene, partial sequence	DQ059032.1	2065	573	980	19.75787	514	1.00E-141	372/414	89	20/414	4	Plus	Plus
Uncultured Euglyphida	400	1	400	100	Uncultured Euglyphida clone F2_4 18S ribosomal RNA gene, partial sequence	KT272672.1	1062	411	810	37.66478	651	0	384/400	96	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P668 small subunit ribosomal RNA gene, partial sequence	MH009156.1	420	1	402	95.71429	436	3.00E-118	355/410	86	18/410	4	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04IFTAT 18S ribosomal RNA gene, partial sequence	GU922502.2	506	83	480	78.65613	610	1.00E-170	380/403	94	8/403	1	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Thaumatomonadida environmental	400	1	400	100	Thaumatomonadida environmental sample clone Amb_18S_1311 18S ribosomal RNA gene, partial sequence	EF023859.1	1817	572	971	22.01431	734	0	399/400	99	0/400	0	Plus	Plus
Stichotrichia sp.	400	1	400	100	Stichotrichia sp. cTS1 partial 18S rRNA gene, isolate cTS1	LN870177.1	929	280	679	43.05705	726	0	397/400	99	0/400	0	Plus	Plus
Codosiga sp.	400	1	400	100	Codosiga sp. MC-2015a 18S small subunit ribosomal RNA gene, partial sequence	KT757430.1	1837	550	953	21.99238	549	3.00E-152	375/410	91	16/410	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1357 small subunit ribosomal RNA gene, partial sequence	MH009845.1	465	1	398	85.5914	472	7.00E-129	362/410	88	22/410	5	Plus	Plus
Uncultured eustigmatophyte	400	1	400	100	Uncultured eustigmatophyte clone Amb_18S_1095 18S ribosomal RNA gene, partial sequence	EF023502.1	1794	561	961	22.35229	617	8.00E-173	379/401	94	1/401	0	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone d460 small subunit ribosomal RNA gene, partial sequence	MK946156.1	1059	523	920	37.58263	604	7.00E-169	379/403	94	8/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P916 small subunit ribosomal RNA gene, partial sequence	MH009404.1	424	1	399	94.10377	616	3.00E-172	380/402	94	5/402	1	Plus	Plus
Plasmodiophora brassicae	400	1	400	100	Plasmodiophora brassicae isolate Hoengseong 1 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	KX430465.3	7425	951	1352	5.414141	608	5.00E-170	382/406	94	10/406	2	Plus	Plus
Uncultured freshwater	400	1	400	100	Uncultured freshwater eukaryote clone LG08-03 18S ribosomal RNA gene, partial sequence	AY919705.1	1738	530	929	23.01496	435	9.00E-118	356/411	86	22/411	5	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Bracteacoccus deserticola	400	1	400	100	Bracteacoccus deserticola strain BCP-H1-VF22 18S ribosomal RNA gene, partial sequence	JQ259938.1	1752	541	942	22.94521	630	1.00E-176	384/404	95	6/404	1	Plus	Plus
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone 53c_51339 18S ribosomal RNA gene, partial sequence	KT818490.1	439	1	378	86.10478	523	2.00E-144	350/381	91	9/381	2	Plus	Plus
Goniomonas sp.	400	1	400	100	Goniomonas sp. SH-8 18S ribosomal RNA gene, partial sequence	AY705739.1	2046	565	962	19.45259	726	0	398/400	99	2/400	0	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Elev_18S_1409 18S ribosomal RNA gene, partial sequence	EF024881.1	1797	565	964	22.25932	640	2.00E-179	385/403	95	6/403	1	Plus	Plus
Discosia querci	400	1	400	100	Discosia querci strain MFLUCC 16-0642 18S ribosomal RNA gene, partial sequence	MG815831.1	1058	506	905	37.80718	739	0	400/400	100	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone T12-D-1 18S ribosomal RNA gene, complete sequence	KT277615.1	1203	552	955	33.58271	427	2.00E-115	354/411	86	18/411	4	Plus	Plus
Neocercomonas sp.	400	1	400	100	Neocercomonas sp. strain SF21_R_Poa small subunit ribosomal RNA gene, partial sequence	MG775620.1	1813	564	957	21.73194	612	4.00E-171	379/401	94	8/401	1	Plus	Plus
Uncultured soil	400	1	398	99.5	Uncultured soil eukaryote clone m444 small subunit ribosomal RNA gene, partial sequence	MK946035.1	1213	568	964	32.72877	490	2.00E-134	363/407	89	19/407	4	Plus	Plus
Lagenisma coscinodisci	400	1	400	100	Lagenisma coscinodisci 18S ribosomal RNA gene, partial sequence	KT273921.1	1094	479	884	37.11152	662	0	391/406	96	6/406	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone F5K2Q4C04IDE5J 18S ribosomal RNA gene, partial sequence	GU923111.1	543	114	511	73.2965	544	1.00E-150	371/406	91	14/406	3	Plus	Plus
Uncultured eukaryote	400	26	400	93.75	Uncultured eukaryote clone A10_92940 18S ribosomal RNA gene, partial sequence	KT815561.1	424	1	373	87.9717	475	5.00E-130	341/380	89	12/380	3	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate DB-2703-13 18S ribosomal RNA gene, partial sequence	EU567239.1	1132	480	877	35.15901	627	1.00E-175	381/401	95	4/401	0	Plus	Plus
Sellaphora cf.	400	1	400	100	Sellaphora cf. seminulum clone TM37 18S ribosomal RNA gene, partial sequence	EF151967.1	1787	554	954	22.43984	712	0	397/402	98	3/402	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone KF_Euk_E4 18S ribosomal RNA gene, partial sequence	KC306595.1	1186	543	941	33.6425	449	3.00E-122	353/405	87	11/405	2	Plus	Plus
Eimeriidae environmental	400	1	400	100	Eimeriidae environmental sample clone Elev_18S_1076 18S ribosomal RNA gene, partial sequence	EF024087.1	1877	572	972	21.36388	462	4.00E-126	358/408	87	15/408	3	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P176 small subunit ribosomal RNA gene, partial sequence	MH008664.1	426	1	405	95.07042	577	1.00E-160	378/408	92	11/408	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone TKR07E.14 18S ribosomal RNA gene, partial sequence	GU290069.1	1797	1052	1468	23.20534	510	1.00E-140	375/419	89	21/419	5	Plus	Plus
Uncultured soil	400	1	400	100	Uncultured soil eukaryote clone o66 small subunit ribosomal RNA gene, partial sequence	MK946297.1	1132	450	848	35.24735	688	0	394/403	97	7/403	1	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone H22.10 18S ribosomal RNA gene, partial sequence	AY749542.1	1620	551	948	24.5679	676	0	391/402	97	6/402	1	Plus	Plus
Apicomplexan Acarus	400	1	400	100	Apicomplexan Acarus siro pathogen 18S ribosomal RNA gene, partial sequence	AY490099.1	1672	553	956	24.16268	510	1.00E-140	366/408	89	12/408	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone Ch8A2mG4 18S ribosomal RNA gene, partial sequence	JF730792.1	1690	512	911	23.66864	678	0	389/400	97	0/400	0	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan clone PP2-3B small subunit ribosomal RNA gene, partial sequence	AY620283.1	1263	549	948	31.67063	728	0	398/400	99	0/400	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/Total	Pct. (%)	Match/Total	Pct. (%)	Query	Subject
Oedogoniomyces sp.	400	1	400	100	Oedogoniomyces sp. CR90 18S ribosomal RNA gene, partial sequence	KJ668085.1	2427	492	897	16.72847	462	4.00E-126	365/416	87	26/416	6	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote clone DDI123.fa small subunit ribosomal RNA gene, partial sequence	MK177617.1	1710	483	891	23.91813	697	0	400/409	97	9/409	2	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote isolate P1303 small subunit ribosomal RNA gene, partial sequence	MH009791.1	426	1	402	94.3662	520	2.00E-143	365/405	90	8/405	1	Plus	Plus
Uncultured MAST-12	400	1	400	100	Uncultured MAST-12 related heterokont clone PRS2_4E_2 18S ribosomal RNA gene, partial sequence	GQ330588.1	1452	438	835	27.41047	577	1.00E-160	372/401	92	4/401	0	Plus	Plus
Uncultured Chytridiomycota	400	1	400	100	Uncultured Chytridiomycota clone AY2009D3 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	HQ219449.1	2387	527	929	16.88312	603	2.00E-168	378/403	93	3/403	0	Plus	Plus
Salpingoeca kjevrii	400	1	400	100	Salpingoeca kjevrii strain ATCC 50929 18S small subunit ribosomal RNA gene, partial sequence	KT757494.1	1776	565	946	21.50901	401	9.00E-108	348/406	85	30/406	7	Plus	Plus
Cercomonadidae environmental	400	1	400	100	Cercomonadidae environmental sample clone Amb_18S_809 18S ribosomal RNA gene, partial sequence	EF023582.1	1843	561	960	21.70374	734	0	399/400	99	0/400	0	Plus	Plus
Stylopage araea	400	1	400	100	Stylopage araea strain SA-ET small subunit ribosomal RNA gene, partial sequence	KY934456.1	1310	532	928	30.30534	647	0	385/401	96	5/401	1	Plus	Plus
Uncultured cercozoan	400	1	400	100	Uncultured cercozoan isolate DB-2703-10 18S ribosomal RNA gene, partial sequence	EU567238.1	1113	460	859	35.9389	640	2.00E-179	384/402	95	4/402	0	Plus	Plus

Taxonomy	Query				Subject						Score		Identities		Gaps		Strand	
Species	Length	Start	End	Coverage	Description	Accession number	Length	Start	End	Coverage	Bit	E-Value	Match/ Total	Pct. (%)	Match/ Total	Pct. (%)	Query	Subject
Uncultured Spongospora	400	1	400	100	Uncultured Spongospora clone Fr_Dv_5 18S ribosomal RNA gene, partial sequence	KT251196.1	1112	464	863	35.97122	734	0	399/400	99	0/400	0	Plus	Plus
Uncultured eukaryote	400	1	400	100	Uncultured eukaryote gene for 18S ribosomal RNA, complete sequence, clone: MPE2-35	AB695529.1	1803	529	916	21.51969	429	4.00E-116	355/409	86	30/409	7	Plus	Plus

Table SII

Many species or OTUs of the marshes community are shared to contribute the similarity of the microbial community and microalgal composition.

Taxonomy					Relative abundance (%)		
Phylum	Class	Order	Family	Species	Jeonglyeongchi	Waegok	Wangdeungjae
Annelida	–	Haplotaxida	Enchytraeidae	<i>Mesenchytraeus pelicensis</i>	0	0.05	0
Annelida	–	Haplotaxida	Naididae	<i>Dero</i> sp.	0	0.17	9.98
Apicomplexa	–	–	–	<i>Apicomplexan Acarus</i>	0	0.01	0
Apicomplexa	–	–	Sphaerocystidae	<i>Paraschneideria metamorphosa</i>	0	0.19	0
Apicomplexa	Coccidia	Eucoccidiorida	Cryptosporidiidae	<i>Cryptosporidiidae environmental</i>	0	3.09	0.93
Apicomplexa	Coccidia	Eucoccidiorida	Eimeriidae	<i>Eimeriidae environmental</i>	5.43	1.11	0
Apicomplexa	Coccidia	Eucoccidiorida	Eimeriidae	<i>Eimeria</i> sp.	0	0	26.17
Arthropoda	–	Cyclopoida	Cyclopidae	<i>Paracyclops chiltoni</i>	0	0.16	0
Arthropoda	Arachnida	–	Anystidae	<i>Anystis</i> sp.	0	0.03	0
Arthropoda	Arachnida	–	Hygrobatidae	<i>Hygrobates norvegicus</i>	5.73	0	0
Arthropoda	Insecta	Diptera	Chironomidae	<i>Micropsectra</i> sp.	0.31	0	0
Arthropoda	Insecta	Diptera	Chironomidae	<i>Monodiamesa</i> sp.	0	0.05	0
Arthropoda	Insecta	Diptera	Culicidae	<i>Aedes albopictus</i>	0	34.77	0
Ascomycota	–	–	–	Uncultured ascomycete	0	0.04	0
Ascomycota	Saccharomycetes	Saccharomycetales	Debaryomycetaceae	[<i>Candida</i>] schatavii	0.07	0	0
Ascomycota	Sordariomycetes	–	–	<i>Leptospora</i> sp.	0	0.11	0
Ascomycota	Sordariomycetes	Chaetosphaeriales	Chaetosphaeriaceae	<i>Thozetella pandanicola</i>	0	1.24	0
Ascomycota	Sordariomycetes	Diaporthales	Diaporthaceae	<i>Diaporthe amygdali</i>	0	0.02	0
Ascomycota	Sordariomycetes	Hypocreales	Nectriaceae	<i>Fusarium oxysporum</i>	0	0.05	0
Ascomycota	Sordariomycetes	Xylariales	–	<i>Discosia querci</i>	0	0.01	0
Bacillariophyta	Bacillariophyceae	–	–	<i>Achnantheidium daonense</i>	0	0.04	0
Bacillariophyta	Bacillariophyceae	–	–	<i>Achnantheidium digitatum</i>	0	0.11	0
Bacillariophyta	Bacillariophyceae	–	–	<i>Achnantheidium minutissimum</i>	0	0.25	0
Bacillariophyta	Bacillariophyceae	–	–	<i>Achnantheidium straubianum</i>	0	0.12	0
Bacillariophyta	Bacillariophyceae	–	Bacillariaceae	<i>Nitzschia acidoclinata</i>	0	0.04	0
Bacillariophyta	Bacillariophyceae	–	Bacillariaceae	<i>Nitzschia dissipata</i>	0	0.18	0
Bacillariophyta	Bacillariophyceae	–	Cymbellaceae	<i>Cymbella aspera</i>	0	1.45	0
Bacillariophyta	Bacillariophyceae	–	Cymbellaceae	<i>Cymboppleura naviculiformis</i>	0	0.82	0
Bacillariophyta	Bacillariophyceae	–	Cymbellaceae	<i>Placoneis elginensis</i>	0	0.09	0
Bacillariophyta	Bacillariophyceae	–	Gomphonemataceae	<i>Gomphonema affine</i>	0.57	0.36	0
Bacillariophyta	Bacillariophyceae	–	Gomphonemataceae	<i>Gomphonema</i> cf.	0	0.18	0
Bacillariophyta	Bacillariophyceae	Eunotiales	Eunotiaceae	<i>Eunotia</i> sp.	0.24	0.14	0.81
Bacillariophyta	Bacillariophyceae	Naviculales	–	<i>Humidophila australis</i>	0	0.03	0
Bacillariophyta	Bacillariophyceae	Naviculales	–	Uncultured <i>Halamphora</i>	0	0.03	0
Bacillariophyta	Bacillariophyceae	Naviculales	Amphipleuraceae	<i>Halamphora</i> sp.	0	0.11	0
Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	<i>Pinnunavis</i> sp.	0	0.18	0
Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	<i>Navicula</i> sp.	0	0.04	0
Bacillariophyta	Bacillariophyceae	Naviculales	Neidiaceae	<i>Neidium hitchcockii</i>	0	0.01	0
Bacillariophyta	Bacillariophyceae	Naviculales	Neidiaceae	<i>Neidium</i> sp.	0	0.11	0
Bacillariophyta	Bacillariophyceae	Naviculales	Pinnulariaceae	<i>Pinnularia</i> cf.	0	0.11	0
Bacillariophyta	Bacillariophyceae	Naviculales	Pinnulariaceae	<i>Pinnularia microstauron</i>	0	0.51	0

Bacillariophyta	Bacillariophyceae	Naviculales	Pinnulariaceae	<i>Pinnularia subgibba</i>	0.34	0	0
Bacillariophyta	Bacillariophyceae	Naviculales	Pinnulariaceae	<i>Pinnularia viridiformis</i>	0	0.04	0
Bacillariophyta	Bacillariophyceae	Naviculales	Sellaphoraceae	<i>Sellaphora</i> cf.	0	0.01	0
Bacillariophyta	Bacillariophyceae	Naviculales	Sellaphoraceae	<i>Sellaphora pupula</i>	0	0.04	0
Bacillariophyta	Bacillariophyceae	Surirellales	–	<i>Surirella brebissonii</i>	0	0.75	0
Bacillariophyta	Bacillariophyceae	Surirellales	–	<i>Surirella</i> cf.	0	0.08	0
Bacillariophyta	Bacillariophyceae	Surirellales	–	<i>Surirella</i> sp.	0	0.09	0
Bacillariophyta	Bacillariophyceae	Thalassiophysales	Catenulaceae	<i>Amphora copulata</i>	0	0.21	0
Bacillariophyta	Coscinodiscophyceae	–	Aulacoseiraceae	<i>Aulacoseira alpigena</i>	0	0.12	1.83
Bacillariophyta	Coscinodiscophyceae	–	Aulacoseiraceae	<i>Aulacoseira</i> sp.	0	0	7.77
Bacillariophyta	Coscinodiscophyceae	Chaetocerotales	Chaetocerotaceae	Uncultured Chaetoceros	0	0.02	0
Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	<i>Fragilaria vaucheriae</i>	0	0.29	0
Bacillariophyta	Fragilariophyceae	Tabellariales	Tabellariaceae	<i>Tabellaria flocculosa</i>	0.23	0.44	0
Basidiomycota	Agaricomycetes	Agaricales	–	<i>Inocybe spuria</i>	0	0.01	0
Basidiomycota	Agaricomycetes	Polyporales	–	<i>Fibroporia gossypium</i>	0.11	0.08	0
Basidiomycota	Tremellomycetes	–	–	<i>Holtermanniella nyarrowii</i>	0.04	0	0
Basidiomycota	Tremellomycetes	Cystofilobasidiales	Cystofilobasidiaceae	<i>Cystofilobasidium macerans</i>	0.31	0.01	0
Basidiomycota	Tremellomycetes	Filobasidiales	–	<i>Solicoccozyma terricola</i>	0.21	0	0
Basidiomycota	Tremellomycetes	Filobasidiales	Filobasidiaceae	<i>Filobasidium magnum</i>	0.15	0	0
Basidiomycota	Tremellomycetes	Tremellales	–	<i>Cryptococcus carnescens</i>	0.02	0	0
Basidiomycota	Tremellomycetes	Tremellales	–	<i>Papiliotrema flavescens</i>	0.03	0	0
Blastocladiomycota	–	–	–	Uncultured Blastocladiomycota	0	0.11	0
Chlorophyta	–	–	–	Chlorophyta sp.	0	0.01	0
Chlorophyta	Chlorophyceae	–	Microsporaceae	<i>Microspora</i> sp.	0	0	1.24
Chlorophyta	Chlorophyceae	Chlamydomonadales	Chlamydomonadaceae	<i>Chlamydomonas</i> sp.	0	0.05	1.24
Chlorophyta	Chlorophyceae	Chlamydomonadales	Chlorococcaceae	<i>Chlorococcum</i> sp.	0	0.04	0
Chlorophyta	Chlorophyceae	Sphaeropleales	–	<i>Dictyococcus</i> sp.	0	0.08	0
Chlorophyta	Chlorophyceae	Sphaeropleales	–	<i>Bracteacoccus deserticola</i>	0	0	0.09
Chlorophyta	Chlorophyceae	Sphaeropleales	Neochloridaceae	<i>Neochloris</i> sp.	0.22	0	0
Chlorophyta	Chlorophyceae	Sphaeropleales	Scenedesmaceae	<i>Scenedesmus</i> sp.	0	0	1.71
Chlorophyta	Chlorophyceae	Sphaeropleales	Scenedesmaceae	<i>Asterarcys quadricellulare</i>	0	0.02	0
Chlorophyta	Trebouxiophyceae	–	Coccomyxaceae	<i>Coccomyxa simplex</i>	0.15	0.01	0
Chlorophyta	Trebouxiophyceae	Chlorellales	Chlorellaceae	<i>Chlorella vulgaris</i>	0	0.01	0.44
Chlorophyta	Ulvophyceae	Ulotrichales	–	<i>Tupiella speciosa</i>	0.12	0.03	0
Chlorophyta	prasinophytes	–	–	<i>Monomastix opisthostigma</i>	0	0.05	0
Chordata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	0.05	0	0
Chordata	Mammalia	Cetacea	Delphinidae	<i>Lagenorhynchus obliquidens</i>	0	0	2.45
Chytridiomycota	–	–	–	Uncultured Chytridiomycota	1.31	1.09	0.44
Chytridiomycota	–	–	–	Uncultured rhizosphere	0	0.01	0
Chytridiomycota	Chytridiomycetes	–	–	<i>Catenomyces</i> sp.	0	0.08	0
Chytridiomycota	Chytridiomycetes	–	–	<i>Rhizophlyctis rosea</i>	0	0	1.58
Chytridiomycota	Chytridiomycetes	Chytridiales	–	<i>Chytridiales</i> sp.	0	0.41	0
Chytridiomycota	Chytridiomycetes	Chytridiales	–	Uncultured Chytridiales	0	0.46	0
Chytridiomycota	Chytridiomycetes	Chytridiales	–	Uncultured Chytriomyces	0	0.23	0
Chytridiomycota	Chytridiomycetes	Chytridiales	–	<i>Chytriomyces</i> sp.	0.12	0.09	10.94

Chytridiomycota	Chytridiomycetes	Chytridiales	–	<i>Obelidium mucronatum</i>	2.62	0.58	0
Chytridiomycota	Chytridiomycetes	Chytridiales	–	<i>Rhizoclostratium globosum</i>	9.07	0	0
Chytridiomycota	Chytridiomycetes	Chytridiales	Chytridiaceae	<i>Chytridiaceae</i> sp.	0	0.11	0
Chytridiomycota	Chytridiomycetes	Cladochytriales	–	<i>Nowakowskiella elegans</i>	0	0.02	0
Chytridiomycota	Chytridiomycetes	Cladochytriales	–	<i>Nowakowskiella hemisphaerospora</i>	0.43	0.17	0
Chytridiomycota	Chytridiomycetes	Cladochytriales	–	<i>Nowakowskiella multisporea</i>	0	1.61	0
Chytridiomycota	Chytridiomycetes	Cladochytriales	–	<i>Nowakowskiella</i> sp.	0	0.16	0
Chytridiomycota	Chytridiomycetes	Cladochytriales	Cladochytriaceae	<i>Cladochytrium replicatum</i>	0	0.02	0
Chytridiomycota	Chytridiomycetes	Cladochytriales	Cladochytriaceae	<i>Cladochytrium tenue</i>	0	0.01	0
Chytridiomycota	Chytridiomycetes	Rhizophydiales	–	<i>Rhizophydiales</i> sp.	0	0.08	0
Chytridiomycota	Chytridiomycetes	Rhizophydiales	–	<i>Uebelmesseromyces</i> sp.	0	0.94	0
Chytridiomycota	Chytridiomycetes	Rhizophydiales	Kappamycetaceae	<i>Kappamyces laurelensis</i>	0.13	0.01	0
Chytridiomycota	Chytridiomycetes	Rhizophydiales	Rhizophydiaceae	<i>Rhizophyidium planktonicum</i>	0	0	0.51
Chytridiomycota	Chytridiomycetes	Rhizophydiales	Rhizophydiaceae	<i>Rhizophyidium sphaerotheca</i>	0	2.14	0
Chytridiomycota	Chytridiomycetes	Spizellomycetales	–	<i>Fimicolochytrium alabamiae</i>	0.18	0.15	0
Chytridiomycota	Monoblepharidomycetes	Monoblepharidales	–	<i>Hyaloraphidium curvatum</i>	0.09	0.02	0
Chytridiomycota	Monoblepharidomycetes	Monoblepharidales	Harpochytriaceae	<i>Harpochytrium</i> sp.	0	0.06	0
Chytridiomycota	Monoblepharidomycetes	Monoblepharidales	Oedogoniomycetaceae	<i>Oedogoniomyces</i> sp.	0	0.01	0
Eustigmatophyceae	–	–	–	Uncultured eustigmatophyte	0	0.04	0
Gastrotricha	–	Chaetonotida	Chaetonotidae	<i>Chaetonotus</i> cf.	0	24.43	0
Mollusca	Bivalvia	Veneroida	Sphaeriidae	<i>Pisidium walkeri</i>	0	0.03	0
Nematoda	Chromadorea	Monhysterida	Monhysteridae	<i>Eumonhystera</i> cf.	0.46	0	22.27
Platyhelminthes	–	Catenulida	Catenulidae	<i>Catenula turgida</i>	0.07	0	0
Platyhelminthes	–	Catenulida	Stenostomidae	<i>Stenostomum</i> sp.	0	0.06	6.62
Platyhelminthes	–	Rhabdocoela	Typhloplanidae	<i>Phaenocora</i> sp.	0	0.02	0
Platyhelminthes	–	Tricladida	Planariidae	<i>Phagocata sibirica</i>	68.64	0	0
Streptophyta	–	Brassicales	Brassicaceae	<i>Brassica napus</i>	0	0	0.34
Streptophyta	–	Caryophyllales	Polygonaceae	<i>Persicaria virginiana</i>	1.96	0.01	0
Streptophyta	–	Ericales	Styracaceae	<i>Styrax americana</i>	0	0.04	0
Streptophyta	–	Malpighiales	Salicaceae	<i>Populus trichocarpa</i>	0	2.84	0
Streptophyta	–	Piperales	–	<i>Aristolochiaceae</i> environmental	0.16	0	0
Streptophyta	Liliopsida	Poales	Poaceae	<i>Stipa narynica</i>	0	15.14	0
Streptophyta	Zygnemophyceae	Desmidiales	–	Uncultured Closterium	0.43	0.06	0
Streptophyta	Zygnemophyceae	Desmidiales	Closteriaceae	<i>Closterium moniliferum</i>	0	0.21	0
Streptophyta	Zygnemophyceae	Desmidiales	Closteriaceae	<i>Closterium venus</i>	0	0	0.62
Streptophyta	Zygnemophyceae	Desmidiales	Desmidiaceae	<i>Euastrum affine</i>	0	0	2.02
Xanthophyceae	–	–	–	<i>Xanthophyceae</i> sp.	0	0.05	0