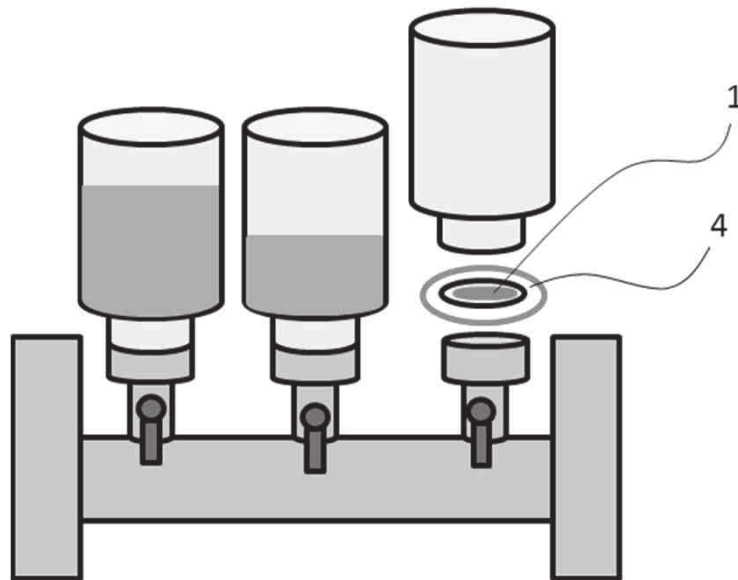
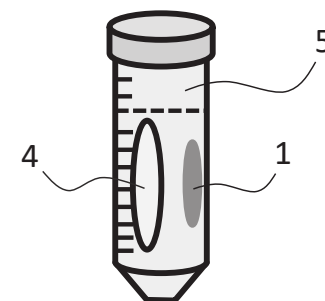
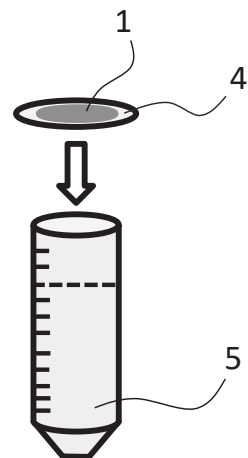


[Figure 1]

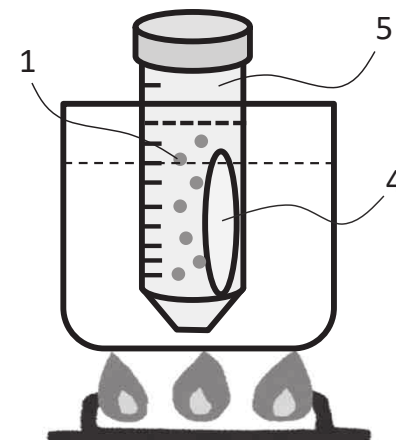
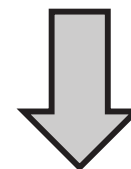
FILTRATION



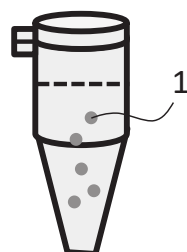
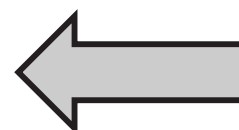
[Figure 2]



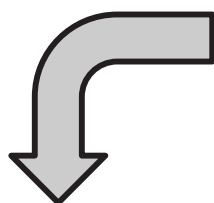
- ULTRASONIC TREATMENT
PERFORMING SONICATION FOR 1 HOUR



- EXTRACTION
PERFORMING HOT WATER EXTRACTION
AT ABOUT 60° C OR 80° C

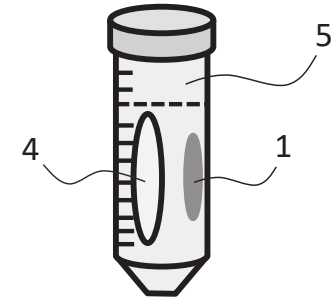
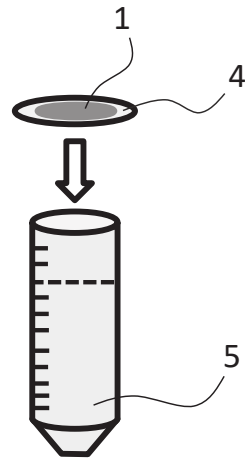


- SAMPLING
SAMPLES TAKEN EVERY
HOUR FOR 5 HOURS

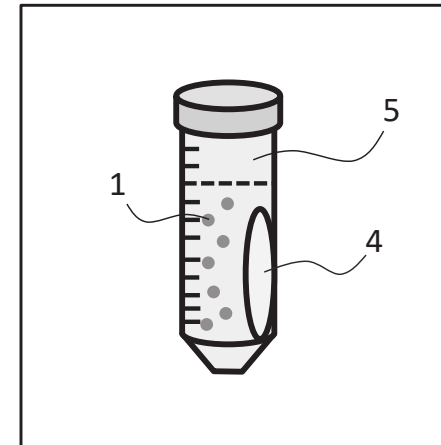
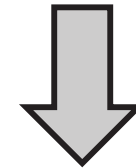


LC-MS/MS ANALYSIS

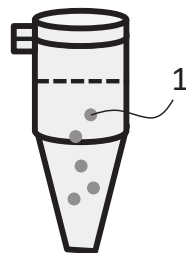
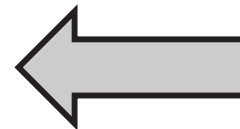
[Figure 3]



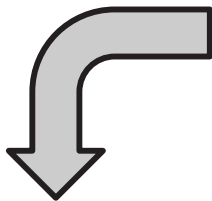
- ULTRASONIC TREATMENT
PERFORMING SONICATION FOR 1 HOUR



- PRESSURIZING EXTRACTION
PERFORM PRESSURE EXTRACTION AT
2 ATMOSPHERES, 2.5 ATMOSPHERES,
OR 3 ATMOSPHERES



- SAMPLING
SAMPLES TAKEN EVERY
HOUR FOR 5 HOURS



LC-MS/MS ANALYSIS

[Figure 4]

RESULT OF HEATING EXPERIMENT

TEMPERATURE	ATMOSPHERIC PRESSURE	EXTRACTION PERIOD						
		PERIOD	30 MINUTES	ONE HOUR	TWO HOURS	THREE HOURS	FOUR HOURS	FIVE HOURS
60	1	DETECTED OR NOT	×	○	○	○	○	×
		CONCENTRA TION (ng/L)	-	0.0053	0.0064	0.0059	0.0063	-
80	1	DETECTED OR NOT	○	○	×	○	○	○
		CONCENTRA TION (ng/L)	0.0035	0.0053	-	0.0035	0.0045	0.0036

[Figure 5]

RESULT OF PRESSURIZING EXPERIMENT

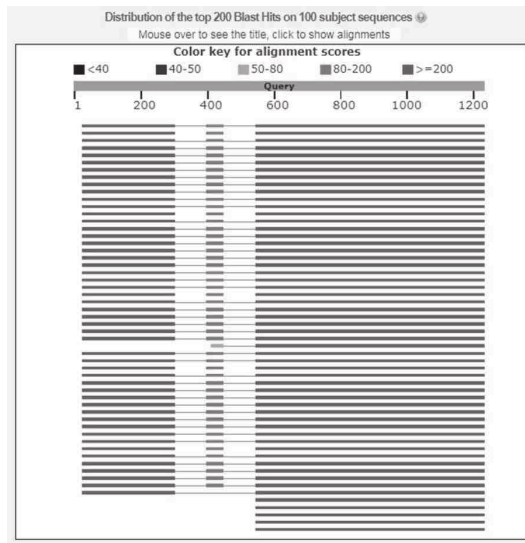
ATMOSPHERIC PRESSURE	EXTRACTION PERIOD				
	PERIOD	30 MINUTES	ONE HOUR	THREE HOURS	FIVE HOURS
2	DETECTED OR NOT	○			
	CONCENTRA TION (ng/L)	0.0125			
2.5	DETECTED OR NOT	○	○	○	○
	CONCENTRA TION (ng/L)	0.197	0.355	0.483	0.683
3	DETECTED OR NOT	○	○	○	○
	CONCENTRA TION (ng/L)	0.282	0.938	1.925	1.341

[Figure 6]

H7-09-18S

Search condition: global search excluding environmental sequences

Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order	
1	1	Humidiphila schmassmanni isolate HYU-D030 small subunit ribosomal RNA gene, partial sequence	1112	1112	100.00%	0	96.18%	MH826402.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales	Funekeiso order
2	1	Achnanthes chlidanos isolate PSchli 18S ribosomal RNA gene, partial sequence	1112	1112	100.00%	0	96.18%	KJ658412.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Mastogloiales	Chikubiretsukeiso order
3	1	Psammothidium papilio clone FLB11 18S ribosomal RNA gene, partial sequence	1112	1112	100.00%	0	96.18%	KM116122.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cocconeidales	Kometsubukeiso order
4	1	Pauliella toeniata strain CCMP1115 18S ribosomal RNA gene, partial sequence	1112	1112	100.00%	0	96.18%	AY485528.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cymbellales	Kuchibirukeiso order
5	5	Achnantheidum daonense isolate PS3 18S ribosomal RNA gene, partial sequence	1107	1107	100.00%	0	96.03%	KJ658413.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cocconeidales	Kometsubukeiso order
6	5	Achnantheidum rivulare isolate Ariv2 18S ribosomal RNA gene, partial sequence	1107	1107	100.00%	0	96.03%	KJ658406.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cocconeidales	Kometsubukeiso order
7	5	Achnantheidum reimeri isolate Arei2 18S ribosomal RNA gene, partial sequence	1107	1107	100.00%	0	96.03%	KJ658405.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cocconeidales	Kometsubukeiso order
8	5	Achnantheidum kranzii isolate A100r 18S ribosomal RNA gene, partial sequence	1107	1107	100.00%	0	96.03%	KJ658397.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cocconeidales	Kometsubukeiso order
9	5	Psammothidium papilio clone FLB10 18S ribosomal RNA gene, partial sequence	1107	1107	100.00%	0	96.03%	KM116121.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cocconeidales	Kometsubukeiso order
10	10	Halamphora subtropica isolate 1086-AMPH168 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	MG027330.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales	Funekeiso order
11	10	Halamphora subtropica isolate 6924-AMPH054 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	MG027277.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales	Funekeiso order
12	10	Amphora subtropica strain Xmm30W3 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KY054938.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
13	10	Amphora subtropica strain Xmm30W1 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KY054936.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
14	10	Amphora montana strain Xmm22W2 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KY054935.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
15	10	Amphora coffeiformis strain NZmm1W4 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KY054933.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
16	10	Amphora coffeiformis strain Xmm29S1 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KY054925.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
17	10	Amphora coffeiformis isolate Xmm10S1 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KU561202.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
18	10	Amphora coffeiformis isolate Xmm30W2 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KU561194.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
19	10	Amphora coffeiformis isolate Xmm20S2 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KU561190.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
20	10	Amphora montana isolate DHmm3W2 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KU561121.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
21	10	Amphora montana isolate DHmm2S1 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KU561112.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
22	10	Amphora subtropica strain WT4 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KX109777.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Thalassiosiphysales	Hankakekeiso order
23	10	Halamphora sp. SZCZP259 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KU179127.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales	Funekeiso order
24	10	Halamphora holsatica isolate HYPH-1010-E6 18S ribosomal RNA gene, partial sequence	1105	1105	100.00%	0	96.04%	KC222331.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales	Funekeiso order
25	10	Bacillariophyta sp. MBIC10815 gene for 18S rRNA, partial sequence, strain: MBIC10815	1105	1105	100.00%	0	96.04%	AB183645.1	Bacillariophyta	-	-	-	-	-
26	10	Bacillariophyta sp. MBIC10809 gene for 18S rRNA, partial sequence, strain: MBIC10809	1105	1105	100.00%	0	96.04%	AB183642.1	Bacillariophyta	-	-	-	-	-
27	27	Pauliella taeniata isolate CCMP1115 18S ribosomal RNA gene, partial sequence	1103	1103	100.00%	0	95.88%	KJ658408.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cymbellales	Kuchibirukeiso order
28	28	Diploleis sp. isolate Coz1 cren-cp penn1 18S ribosomal RNA gene, partial sequence	1101	1101	100.00%	0	95.88%	KX981838.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales	Funekeiso order
29	28	Halamphora sp. SZCZCH623 18S ribosomal RNA gene, partial sequence	1101	1101	100.00%	0	95.89%	KT943647.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales	Funekeiso order
30	28	Rossthidium anastasiae isolate Ros1 18S ribosomal RNA gene, partial sequence	1101	1101	100.00%	0	95.88%	KJ658414.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Cocconeidales	Kometsubukeiso order

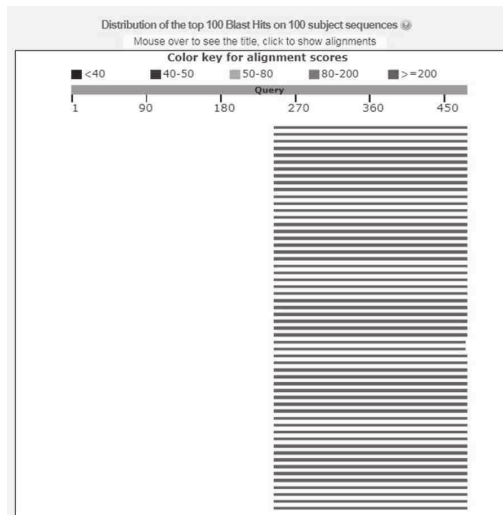


[Figure 7]

H7-09-28S_D2R2

Search condition: global search excluding environmental sequences

Sequ ence numb er	Numbe r by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order	
1	1	Pseudo-nitzschia multistriata strain HAB-132 28S ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	KX290894.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
2	1	Pseudo-nitzschia arenysensis strain 221b 28S ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	KX290867.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
3	1	Pseudo-nitzschia arenysensis strain 286b 28S ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	KX290865.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
4	1	Pseudo-nitzschia arenysensis strain 217b 28S ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	KX290864.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
5	1	Pseudo-nitzschia arenysensis strain 423b 28S ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	KX290863.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
6	1	Nitzschia navis-varingica voucher NLN02 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	KX353686.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
7	1	Nitzschia navis-varingica voucher NLN01 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	KX353685.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
8	1	Pseudo-nitzschia multistriata voucher Pnm07 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	KR021344.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
9	1	Pseudo-nitzschia arenysensis strain 2b 28S large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	KT189137.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
10	1	Pseudo-nitzschia multistriata isolate CAWD111 28S large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	JQ776549.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
11	1	Pseudo-nitzschia micropora strain PS90 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	KC017445.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
12	1	Pseudo-nitzschia multistriata strain PH25C large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	KC017460.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
13	1	Pseudo-nitzschia multistriata strain PH25D large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	KC017459.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
14	1	Pseudo-nitzschia arenysensis strain CHB large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	KC017456.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
15	1	Pseudo-nitzschia multistriata isolate CM2 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	FJ150735.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
16	1	Pseudo-nitzschia subcurvata voucher CCMP1698 28S ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	HQ396845.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
17	1	Pseudo-nitzschia multistriata isolate CM3 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	EF642978.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
18	1	Pseudo-nitzschia multistriata isolate CM1 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	EF642977.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
19	1	Pseudo-nitzschia delicatissima strain Ra3 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	EF566013.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
20	1	Pseudo-nitzschia arenysensis strain AL-24 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	DQ813811.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
21	1	Pseudo-nitzschia multistriata isolate SZN-B27 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	AF416753.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
22	1	Pseudo-nitzschia delicatissima isolate SZN-B18 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	AF416748.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
23	1	Pseudo-nitzschia delicatissima isolate 27-02 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	AY519353.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
24	1	Pseudo-nitzschia delicatissima isolate 18-02 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.12%	AY519349.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
25	1	Nitzschia navis-varingica gene for 28S rRNA, partial sequence, strain:BLEC 03-17-2	377	377	48.00%	2.00E-100	96.10%	AB218886.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
26	1	Nitzschia navis-varingica gene for 28S rRNA, partial sequence, strain:BCEA 03-4-2	377	377	48.00%	2.00E-100	96.10%	AB218885.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
27	1	Pseudo-nitzschia arenysensis strain 14V 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	377	377	48.00%	2.00E-100	96.12%	AY764136.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
28	1	Nitzschia navis-varingica strain VHL987 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	AF417674.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
29	1	Nitzschia pellucida strain 99NG1-16 large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	AF417672.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order
30	1	Pseudo-nitzschia multistriata strain KoreaA large subunit ribosomal RNA gene, partial sequence	377	377	48.00%	2.00E-100	96.10%	AF417654.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarikeiso order



[Figure 8]

H7-09-18S

Search condition: Limit to sequences from type material

Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	<i>Fistulifera solaris</i> gene for 18S ribosomal RNA, partial sequence	1027	1027	100.00%	0	93.88%	AB769957.1	Bacillariophyta
2	2	<i>Pedospumella encystans</i> voucher B 40 0040671 18S ribosomal RNA gene, partial sequence	843	843	100.00%	0	89.06%	AY651083.1	Golden algae
3	3	<i>Heterococcus fuornensis</i> partial 18S rRNA gene, strain SAG 835-5	832	832	100.00%	0	88.71%	AM490821.1	Yellow-green algae
4	3	<i>Heterococcus caespitosus</i> partial 18S rRNA gene, strain SAG 835-2a	832	832	100.00%	0	88.71%	AM490820.1	Yellow-green algae
5	5	<i>Chlorellidium tetrabotrys</i> strain SAG811-1 18S ribosomal RNA gene, partial sequence	821	821	100.00%	0	88.45%	FJ030892.1	Yellow-green algae
6	5	<i>Spumella vulgaris</i> isolate 199hm 18S ribosomal RNA gene, partial sequence	821	821	100.00%	0	88.47%	DQ388552.1	Golden algae
7	7	<i>Sphaerosorus composita</i> partial 18S rRNA gene, strain SAG 53.91	809	809	100.00%	0	88.12%	AJ579333.1	
8	8	<i>Bumilleriopsis pyrenoidosa</i> partial 18S rRNA gene, strain SAG 69.90	802	802	100.00%	0	87.89%	AJ579332.1	
9	9	<i>Pseudotetraedriella kamillae</i> strain SAG 2056 18S ribosomal RNA gene, partial sequence	778	778	100.00%	0	87.39%	EF044311.1	
10	9	<i>Nannochloropsis limnetica</i> strain SAG 18.99 culture-collection SAG:18.99 18S ribosomal RNA gene, partial sequence	778	778	100.00%	0	87.41%	AF251496.1	
11	11	<i>Monodus unipapilla</i> partial 18S rRNA gene, strain SAG 8.83	767	767	100.00%	0	87.11%	AM490827.1	
12	12	<i>Vischeria helvetica</i> strain SAG 876-1 18S ribosomal RNA gene, complete sequence	763	763	100.00%	0	86.98%	JX188080.1	
13	13	<i>Eustigmatos vischeri</i> isolate SAG 860-1 18S ribosomal RNA gene, complete sequence	758	758	100.00%	0	86.84%	JX274590.1	
14	13	<i>Eustigmatos polyphem</i> strain SAG 38.84 18S ribosomal RNA gene, complete sequence	758	758	100.00%	0	86.84%	JX188077.1	
15	15	<i>Ochromonas danica</i> strain SAG933.7 18S ribosomal RNA gene, partial sequence	749	749	100.00%	0	86.62%	JQ281514.1	
16	16	<i>Monodus unipapilla</i> culture SAG:8.83 voucher SAG 8.83 18S ribosomal RNA (ssu) gene, partial sequence	728	728	96.00%	0	86.89%	HQ710565.1	
17	17	<i>Sargassococcus simulans</i> strain CCMP1996 18S ribosomal RNA gene, partial sequence	719	719	100.00%	0	85.88%	MF927481.1	
18	17	<i>Pelagospilus aureus</i> strain CCMP1410 18S ribosomal RNA gene, partial sequence	719	719	100.00%	0	85.90%	MF927480.1	
19	19	<i>Sargassococcus epiphyticus</i> strain CCMP1995 18S ribosomal RNA gene, partial sequence	708	708	100.00%	0	85.53%	MF927478.1	
20	20	<i>Lagenidium</i> sp. PWL-2010c strain CBS 127042 18S ribosomal RNA gene, partial sequence	686	686	100.00%	0	84.89%	HQ384409.1	
21	21	<i>Geranomyces variabilis</i> voucher MP03 18S small subunit ribosomal RNA gene, partial sequence	682	682	100.00%	0	84.94%	HQ901757.1	
22	21	<i>Geranomyces michiganensis</i> voucher JEL563 18S small subunit ribosomal RNA gene, partial sequence	682	682	100.00%	0	84.94%	HQ901742.1	
23	21	<i>Spumella rivalis</i> strain AR4A6 18S ribosomal RNA gene, partial sequence	682	682	100.00%	0	85.65%	GU073468.1	
24	24	<i>Fimicolochytrium jonesii</i> JEL 569 18S rRNA gene, partial sequence; from TYPE material	671	671	100.00%	0	84.65%	NG_061114.1	
25	24	<i>Thoreauomyces humboldtii</i> JEL 95 18S rRNA gene, partial sequence; from TYPE material	671	671	100.00%	0	84.63%	NG_061113.1	
26	24	<i>Fimicolochytrium jonesii</i> voucher JEL569 18S small subunit ribosomal RNA gene, partial sequence	671	671	100.00%	0	84.65%	HQ901746.1	
27	24	<i>Thoreauomyces humboldtii</i> voucher JEL95 18S small subunit ribosomal RNA gene, partial sequence	671	671	100.00%	0	84.63%	HQ901727.1	
28	28	<i>Fimicolochytrium alabamae</i> JEL 538 18S rRNA gene, partial sequence; from TYPE material	665	665	100.00%	0	84.51%	NG_062391.1	
29	28	<i>Fimicolochytrium alabamae</i> voucher JEL538 18S small subunit ribosomal RNA gene, partial sequence	665	665	100.00%	0	84.51%	HQ901734.1	
30	29	<i>Myxozyma neglecta</i> 18S rRNA gene, partial sequence; from TYPE material	645	645	99.00%	0	84.03%	NG_062046.1	
31	29	<i>Myxozyma mucilagina</i> 18S rRNA gene, partial sequence; from TYPE material	645	645	99.00%	0	84.03%	NG_062045.1	
32	29	<i>Myxozyma neglecta</i> strain NRRL Y-27508 18S ribosomal RNA gene, partial sequence	645	645	99.00%	0	84.03%	DQ519022.1	
33	29	<i>Myxozyma mucilagina</i> strain NRRL Y-11823 18S ribosomal RNA gene, partial sequence	645	645	99.00%	0	84.03%	DQ519021.1	

[Figure 9]

H7-09-28S_D2R2

Search condition: Limit to sequences from type material

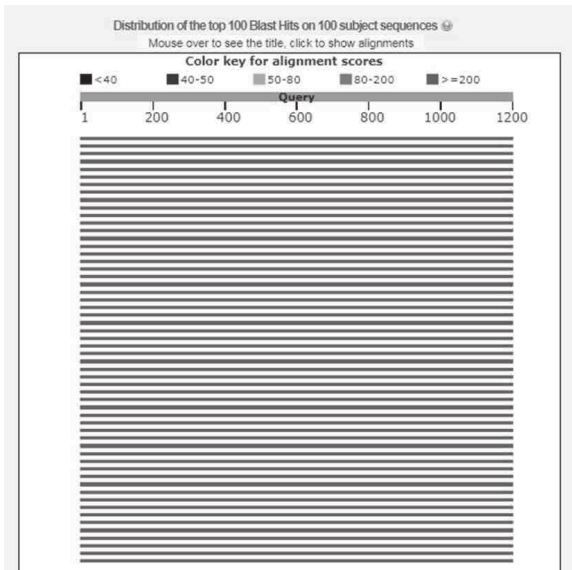
Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	Chlorellidium tetrabotrys strain SAG811-1 28S ribosomal RNA gene, partial sequence	233	233	48.00%	2.00E-58	84.94%	FJ030881.1	Yellow-green algae
2	2	Fimicolochytrium jonesii JEL 569 28S rRNA gene, partial sequence; from TYPE material	224	224	48.00%	1.00E-55	84.26%	NG_060391.1	Fungus
3	2	Fimicolochytrium jonesii voucher JEL569 28S large subunit ribosomal RNA gene, partial sequence	224	224	48.00%	1.00E-55	84.26%	HQ901681.1	Fungus
4	4	Geranomyces variabilis voucher MP03 28S large subunit ribosomal RNA gene, partial sequence	219	219	48.00%	5.00E-54	84.03%	HQ901692.1	Fungus
5	5	Thoreauomyces humboldtii JEL 95 28S rRNA gene, partial sequence; from TYPE material	217	217	48.00%	2.00E-53	83.90%	NG_059938.1	Fungus
6	5	Thoreauomyces humboldtii voucher JEL95 28S large subunit ribosomal RNA gene, partial sequence	217	217	48.00%	2.00E-53	83.90%	HQ901662.1	Fungus
7	5	Spizellomyces acuminatus 28S ribosomal RNA (LSU) gene, partial sequence	217	217	48.00%	2.00E-53	83.83%	JN941010.1	Fungus
8	5	Phlyctochytrium africanum voucher CBS 454.65 28S ribosomal RNA gene, partial sequence	217	217	48.00%	2.00E-53	83.83%	FJ827693.1	
9	9	Holtermanniella wattica CBS 9496 28S rRNA gene, partial sequence; from TYPE material	215	215	48.00%	6.00E-53	83.61%	NG_058307.1	
10	9	Holtermanniella wattica culture CBS:9496 large subunit ribosomal RNA gene, partial sequence	215	215	48.00%	6.00E-53	83.61%	KY107874.1	
11	11	Fimicolochytrium alabamiae JEL 538 28S rRNA gene, partial sequence; from TYPE material	213	213	48.00%	2.00E-52	83.40%	NG_060390.1	
12	11	Fimicolochytrium alabamiae voucher JEL538 28S large subunit ribosomal RNA gene, partial sequence	213	213	48.00%	2.00E-52	83.40%	HQ901669.1	
13	11	Gorgonomyces haynaldii BAFc ARG 026 28S rRNA, partial sequence; from TYPE material	213	213	48.00%	2.00E-52	83.62%	NG_042448.1	
14	14	Ceriporiopsis semisupina BJFC Cui 10222 28S rRNA gene, partial sequence; from TYPE material	211	211	48.00%	8.00E-52	83.40%	NG_064354.1	
15	14	Ceriporiopsis sp. CLZ-2014 voucher Cui 10222 28S large subunit ribosomal RNA gene, partial sequence	211	211	48.00%	8.00E-52	83.40%	KF845949.1	
16	14	Sonoraphlyctis ranzonii DAOM BR 060 28S rRNA, partial sequence; from TYPE material	211	211	48.00%	8.00E-52	83.47%	NG_042454.1	
17	17	Basidioascus undulatus strain CBS 133763 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.19%	MH877552.1	
18	17	Piskurozyma taiwanensis CBS 9813 28S rRNA gene, partial sequence; from TYPE material	209	209	48.00%	3.00E-51	83.19%	NG_058375.1	
19	17	Goffeazyma gastrica CBS 2288 28S rRNA gene, partial sequence; from TYPE material	209	209	48.00%	3.00E-51	83.19%	NG_058296.1	
20	17	Goffeazyma aciditolerans CBS 10872 28S rRNA gene, partial sequence; from TYPE material	209	209	48.00%	3.00E-51	83.19%	NG_058295.1	
21	17	Solicoccozyma aerea culture CBS:155 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.19%	KY109666.1	
22	17	Piskurozyma taiwanensis culture CBS:9813 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.19%	KY108934.1	
23	17	Naganishia globosa culture CBS:5106 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.19%	KY108616.1	
24	17	Naganishia friedmannii culture CBS:7160 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.19%	KY108613.1	
25	17	Goffeazyma gastrica culture CBS:2288 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.19%	KY107764.1	
26	17	Goffeazyma aciditolerans culture CBS:10872 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.19%	KY107763.1	
27	17	Filobasidium wieringae culture CBS:1937 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.12%	KY107733.1	
28	17	Filobasidium magnum culture CBS:140 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.12%	KY107722.1	
29	17	Filobasidium globisporum culture CBS:7642 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83.12%	KY107713.1	
30	17	Filobasidium floriforme culture CBS:6241 large subunit ribosomal RNA gene, partial sequence	209	209	48.00%	3.00E-51	83%	KY107703.1	

[Figure 10]

H9-05-18S

Search condition: global search excluding environmental sequences

Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order
1	1	Entomoneis paludosa isolate L431 18S ribosomal RNA gene, partial sequence	2108	2108	100.00%	0	98.00%	KX120688.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
2	2	Entomoneis ornata isolate 27D 18S ribosomal RNA gene, partial sequence	2091	2091	100.00%	0	98.00%	KX120693.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
3	2	Entomoneis ornata strain 14A 18S small subunit ribosomal RNA gene, partial sequence	2091	2091	100.00%	0	98.00%	HQ912411.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
4	4	Entomoneis infula voucher PMFT2EN2 18S small subunit ribosomal RNA gene, partial sequence	2080	2080	100.00%	0	98.00%	MF000603.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
5	4	Entomoneis cf. alata strain Xmm8S2 18S ribosomal RNA gene, partial sequence	2080	2080	100.00%	0	98.00%	KY054953.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
6	4	Entomoneis punctulata isolate DHmm4W3 18S ribosomal RNA gene, partial sequence	2080	2080	100.00%	0	98.00%	KU561123.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
7	4	Entomoneis punctulata isolate DHmm3W1 18S ribosomal RNA gene, partial sequence	2080	2080	100.00%	0	98.00%	KU561111.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
8	4	Entomoneis sp. COMP2396 18S ribosomal RNA gene, partial sequence	2080	2080	100.00%	0	98.00%	KF899836.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
9	9	Entomoneis sp. isolate B3A 18S ribosomal RNA gene, partial sequence	2076	2076	100.00%	0	98.00%	KX120691.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
10	10	Entomoneis sp. strain SA18 Ento-C1 small subunit ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	MH063466.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
11	10	Epithemia argus strain Xmm11S3 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KY054960.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Rhopalodiales Kushigatakeiso order
12	10	Entomoneis punctulata strain NZmm1S1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KY054959.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
13	10	Entomoneis punctulata strain Xmm28W1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KY054958.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
14	10	Entomoneis punctulata strain Xmm21S1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KY054957.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
15	10	Entomoneis punctulata strain Xmm5S2 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KY054956.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
16	10	Entomoneis punctulata strain Xmm15S2 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KY054954.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
17	10	Entomoneis ornata strain Xmm5S1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KY054952.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
18	10	Entomoneis punctulata isolate Xmm26S1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561212.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
19	10	Entomoneis punctulata isolate Xmm39S3 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561203.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
20	10	Entomoneis punctulata isolate Xmm34S3 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561187.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
21	10	Entomoneis punctulata isolate Xmm1W5 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561182.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
22	10	Amphiprora paludosa isolate mXm17S2 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561173.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
23	10	Entomoneis punctulata isolate Xmm23W1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561168.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
24	10	Entomoneis ornata isolate Xmm11S1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561167.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
25	10	Amphiprora paludosa var. hyalina isolate Xmm39S4 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561162.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
26	10	Amphiprora paludosa var. hyalina isolate Xmm15S4 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561161.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
27	10	Entomoneis ornata isolate Xmm4S1 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561144.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
28	10	Amphiprora paludosa var. hyalina isolate Xmm15S3 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561143.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
29	10	Entomoneis punctulata isolate DHmm4W2 18S ribosomal RNA gene, partial sequence	2074	2074	100.00%	0	98.00%	KU561113.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
30	30	Entomoneis cf. alata 18S rRNA gene, clone p540	2073	2073	100.00%	0	98.00%	AJ535160.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order

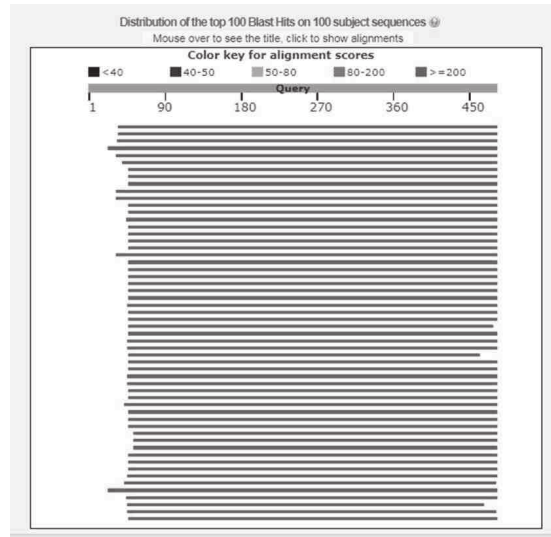


[Figure 11]

H9-05-28S.D2C2

Search condition: global search excluding environmental sequences

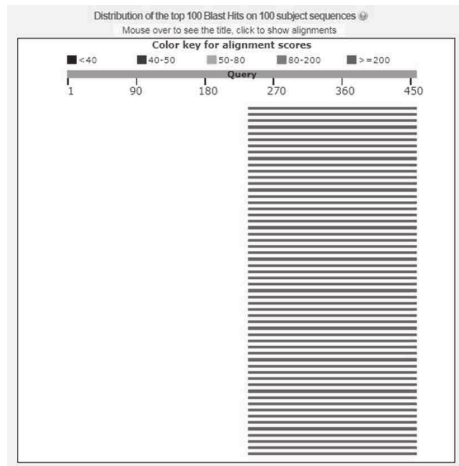
Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order
1	1	Entomoneis ornata isolate 27D 28S ribosomal RNA gene, partial sequence	625	625	92.00%	5.00E-175	92.00%	KX120361.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
2	1	Entomoneis ornata isolate 14A 28S ribosomal RNA gene, partial sequence	625	625	92.00%	5.00E-175	92.00%	KX120336.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
3	3	Entomoneis paludosa isolate L431 28S ribosomal RNA gene, partial sequence	616	616	92.00%	3.00E-172	91.00%	KX120357.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
4	4	Entomoneis sp. isolate 3564.E1.1 28S ribosomal RNA gene, partial sequence	586	586	95.00%	2.00E-163	90.00%	KX120365.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
5	5	Protokeelia bassonii isolate 3564.A20 28S ribosomal RNA gene, partial sequence	582	582	93.00%	3.00E-162	90.00%	KX120350.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Rhopalodiales Kuschigatakeiso order
6	6	Entomoneis sp. isolate CC8 28S ribosomal RNA gene, partial sequence	579	579	91.00%	4.00E-161	90.00%	KX120355.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
7	7	Surirella cf. pinnata isolate 34C 28S ribosomal RNA gene, partial sequence	573	573	90.00%	2.00E-159	91.00%	KX120394.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
8	8	Surirella brightwellii isolate CCMP3162 28S ribosomal RNA gene, partial sequence	568	568	90.00%	9.00E-158	90.00%	KX120391.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
9	8	Surirella brightwellii isolate L1753 28S ribosomal RNA gene, partial sequence	568	568	90.00%	9.00E-158	90.00%	KX120390.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
10	8	Entomoneis sp. strain 99SK2-4 large subunit ribosomal RNA gene, partial sequence	568	568	93.00%	9.00E-158	90.00%	AF417683.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
11	11	Entomoneis sp. isolate B3A 28S ribosomal RNA gene, partial sequence	566	566	93.00%	3.00E-157	89.00%	KX120360.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
12	12	Surirella angusta isolate nycSur 28S ribosomal RNA gene, partial sequence	562	562	90.00%	4.00E-156	90.00%	KX120400.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
13	12	Surirella sp. isolate 18.2 28S ribosomal RNA gene, partial sequence	562	562	90.00%	4.00E-156	90.00%	KX120395.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
14	12	Campylodiscus sp. isolate GCCT30 28S ribosomal RNA gene, partial sequence	562	562	90.00%	4.00E-156	90.00%	KX120375.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
15	12	Surirella angusta strain WC2 28S ribosomal RNA gene, partial sequence	562	562	90.00%	4.00E-156	90.00%	JX032944.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
16	16	Surirella cf. linearis isolate B600 28S ribosomal RNA gene, partial sequence	560	560	90.00%	1.00E-155	90.00%	KX120423.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
17	17	Surirella sp.1 ECR-2011 isolate LO299 28S ribosomal RNA gene, partial sequence	558	558	90.00%	5.00E-155	90.00%	JX032888.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
18	18	Surirella brebissonii isolate KR1 28S ribosomal RNA gene, partial sequence	556	556	90.00%	2.00E-154	90.00%	KX120397.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
19	18	Entomoneis paludosa isolate CCAP1003.4 28S ribosomal RNA gene, partial sequence	556	556	93.00%	2.00E-154	89.00%	KX120359.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
20	20	Surirella helissella isolate LO120 28S ribosomal RNA gene, partial sequence	555	555	90.00%	7.00E-154	90.00%	JX032882.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
21	21	Surirella iconella isolate LO159 28S ribosomal RNA gene, partial sequence	553	553	90.00%	2.00E-153	90.00%	JX032883.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
22	22	Surirella ovalis var. apiculata isolate L295 28S ribosomal RNA gene, partial sequence	551	551	90.00%	9.00E-153	90.00%	KX120388.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
23	22	Surirella minuta isolate JGOH.5 28S ribosomal RNA gene, partial sequence	551	551	90.00%	9.00E-153	90.00%	KX120387.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
24	24	Surirella sp. isolate LS1 28S ribosomal RNA gene, partial sequence	545	545	90.00%	4.00E-151	89.00%	KX120399.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
25	24	Campylodiscus sp. isolate GCCT6 28S ribosomal RNA gene, partial sequence	545	545	90.00%	4.00E-151	89.00%	KX120372.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
26	26	Surirella cf. spiralis isolate B568 28S ribosomal RNA gene, partial sequence	544	544	90.00%	1.00E-150	89.00%	KX120422.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
27	27	Cymatopleura solea isolate B484 28S ribosomal RNA gene, partial sequence	540	540	90.00%	2.00E-149	89.00%	KX120418.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
28	27	Surirella sp. isolate 27G 28S ribosomal RNA gene, partial sequence	540	540	90.00%	2.00E-149	89.00%	KX120393.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
29	29	Cymatopleura solea strain L1348 28S ribosomal RNA gene, partial sequence	536	536	89.00%	2.00E-148	89.00%	JX032942.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
30	30	Cymatopleura solea isolate L1453 28S ribosomal RNA gene, partial sequence	534	534	90.00%	9.00E-148	89.00%	KX120381.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
31	30	Surirella spiralis isolate LO412 28S ribosomal RNA gene, partial sequence	534	534	90.00%	9.00E-148	88.76%	JX032891.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
32	30	Campylodiscus levanderi isolate LO224 28S ribosomal RNA gene, partial sequence	534	534	90.00%	9.00E-148	88.76%	JX032885.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order



[Figure 12]

H9-05-28S, D2R2
Search condition: global search excluding environmental sequences

Sequ ence num ber	Numbe r by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order
1	1	Pseudo-nitzschia multistriata strain HAB-132 28S ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX290894.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
2	1	Pseudo-nitzschia arenysensis strain 221b 28S ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX290867.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
3	1	Pseudo-nitzschia arenysensis strain 286b 28S ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX290865.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
4	1	Pseudo-nitzschia arenysensis strain 217b 28S ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX290864.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
5	1	Pseudo-nitzschia arenysensis strain 423b 28S ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX290863.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
6	1	Nitzschia navis-varingica voucher NLN23 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353691.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
7	1	Nitzschia navis-varingica voucher NLN21 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353690.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
8	1	Nitzschia navis-varingica voucher NLN08 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353688.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
9	1	Nitzschia navis-varingica voucher NLN05 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353687.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
10	1	Nitzschia navis-varingica voucher NLN02 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353686.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
11	1	Nitzschia navis-varingica voucher NLN01 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353685.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
12	1	Nitzschia navis-varingica voucher NTB23 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353684.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
13	1	Nitzschia navis-varingica voucher NTB02 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KX353683.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
14	1	Pseudo-nitzschia multistriata voucher Pnm07 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KR021344.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
15	1	Pseudo-nitzschia arenysensis strain 2b 28S large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KT189137.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
16	1	Pseudo-nitzschia multistriata isolate CAWD111 28S large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	JQ776549.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
17	1	Pseudo-nitzschia micropora strain PS90 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KC017445.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
18	1	Pseudo-nitzschia multistriata strain PH25C large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KC017460.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
19	1	Pseudo-nitzschia multistriata strain PH25D large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KC017459.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
20	1	Pseudo-nitzschia arenysensis strain CHB large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	KC017456.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
21	1	Pseudo-nitzschia multistriata isolate CM2 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	FJ150735.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
22	1	Pseudo-nitzschia subcurvata voucher CGMP1698 28S ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	HQ396845.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
23	1	Pseudo-nitzschia multistriata isolate CM3 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	EF642978.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
24	1	Pseudo-nitzschia multistriata isolate CM1 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	EF642977.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
25	1	Pseudo-nitzschia delicatissima strain Ra3 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	EF566013.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
26	1	Pseudo-nitzschia arenysensis strain AL-24 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	DQ813811.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
27	1	Pseudo-nitzschia multistriata isolate SZN-B27 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	AF416753.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
28	1	Pseudo-nitzschia delicatissima isolate SZN-B18 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	AF416748.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
29	1	Pseudo-nitzschia delicatissima isolate 27-02 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	AY519353.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
30	1	Pseudo-nitzschia delicatissima isolate 18-02 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	96.00%	AY519349.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
31	1	Nitzschia navis-varingica gene for 28S rRNA, partial sequence, strain:BLEC 03-17-2	359	359	48.00%	5.00E-95	95.93%	AB218886.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
32	1	Nitzschia navis-varingica gene for 28S rRNA, partial sequence, strain:BCEA 03-4-2	359	359	48.00%	5.00E-95	95.93%	AB218885.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
33	1	Pseudo-nitzschia arenysensis strain 14V 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	359	359	48.00%	5.00E-95	95.95%	AY764136.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
34	1	Nitzschia navis-varingica strain VHL987 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	95.93%	AF417674.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
35	1	Nitzschia pellucida strain 99NG1-16 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	95.93%	AF417672.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
36	1	Pseudo-nitzschia multistriata strain KoreaA large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	95.93%	AF417654.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order
37	1	Pseudo-nitzschia micropora strain VPB-B3 large subunit ribosomal RNA gene, partial sequence	359	359	48.00%	5.00E-95	95.95%	AF417649.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales Kusarikeiso order



[Figure 13]

H9-05-18S

Search condition: Limit to sequences from type material

Seq uenc e num ber	Numb er by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	<i>Fistulifera solaris</i> gene for 18S ribosomal RNA, partial sequence	1873	1873	100.00%	0	95.00%	AB769957.1	Bacillariophyta
2	2	<i>Pedospumella encystans</i> voucher B 40 0040671 18S ribosomal RNA gene, partial sequence	1511	1511	100.00%	0	89.00%	AY651083.1	Golden algae
3	3	<i>Chlorellidium tetrabotrys</i> strain SAG811-1 18S ribosomal RNA gene, partial sequence	1506	1506	100.00%	0	89.00%	FJ030892.1	Yellow-green algae
4	4	<i>Heterococcus fuornensis</i> partial 18S rRNA gene, strain SAG 835-5	1495	1495	100.00%	0	89.00%	AM490821.1	Yellow-green algae
5	4	<i>Heterococcus caespitosus</i> partial 18S rRNA gene, strain SAG 835-2a	1495	1495	100.00%	0	89.00%	AM490820.1	Yellow-green algae
6	4	<i>Sphaerosorus composita</i> partial 18S rRNA gene, strain SAG 53.91	1495	1495	100.00%	0	89.00%	AJ579333.1	
7	7	<i>Bumilleriopsis pyrenoidosa</i> partial 18S rRNA gene, strain SAG 69.90	1476	1476	100.00%	0	89.00%	AJ579332.1	
8	8	<i>Nannochloropsis limnetica</i> strain SAG 18.99 culture-collection SAG:18.99 18S ribosomal RNA gene, partial sequence	1471	1471	100.00%	0	89.00%	AF251496.1	
9	9	<i>Pseudotetraedriella kamillae</i> strain SAG 2056 18S ribosomal RNA gene, partial sequence	1454	1454	100.00%	0	88.00%	EF044311.1	
10	10	<i>Vischeria helvetica</i> strain SAG 876-1 18S ribosomal RNA gene, complete sequence	1450	1450	100.00%	0	88.00%	JX188080.1	
11	11	<i>Eustigmatos vischeri</i> isolate SAG 860-1 18S ribosomal RNA gene, complete sequence	1445	1445	100.00%	0	88.00%	JX274590.1	
12	11	<i>Eustigmatos polyphem</i> strain SAG 38.84 18S ribosomal RNA gene, complete sequence	1445	1445	100.00%	0	88.00%	JX188077.1	
13	11	<i>Spumella vulgaris</i> isolate 199hm 18S ribosomal RNA gene, partial sequence	1445	1445	100.00%	0	88.00%	DQ388552.1	
14	14	<i>Monodus unipapilla</i> partial 18S rRNA gene, strain SAG 8.83	1443	1443	100.00%	0	88.00%	AM490827.1	
15	15	<i>Ochromonas danica</i> strain SAG933.7 18S ribosomal RNA gene, partial sequence	1402	1402	100.00%	0	88.00%	JQ281514.1	
16	16	<i>Bumilleriopsis peterseniana</i> partial 18S rRNA gene, strain SAG 809-3	1380	1380	100.00%	0	87.00%	AJ579331.1	
17	17	<i>Pythium insidiosum</i> 18S ribosomal RNA gene, partial sequence	1325	1325	100.00%	0	86.00%	AF289981.1	
18	18	<i>Sargassococcus simulans</i> strain CCMP1996 18S ribosomal RNA gene, partial sequence	1317	1317	100.00%	0	86.00%	MF927481.1	
19	18	<i>Pelagospilus aureus</i> strain CCMP1410 18S ribosomal RNA gene, partial sequence	1317	1317	100.00%	0	86.00%	MF927480.1	
20	20	<i>Olpidopsis heterosiphoniae</i> isolate KNU-M-omc4 18S ribosomal RNA gene, partial sequence	1312	1312	100.00%	0	86.00%	MF838767.1	
21	21	<i>Sargassococcus epiphyticus</i> strain CCMP1995 18S ribosomal RNA gene, partial sequence	1306	1306	100.00%	0	86.00%	MF927478.1	
22	22	<i>Pythium grandisporangium</i> strain CBS 286.79 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	1293	1293	100.00%	0	86.00%	AY598692.2	
23	23	<i>Lagenidium giganteum</i> f. <i>caninum</i> isolate C13-AK202 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	1288	1288	100.00%	0	86.00%	KF915305.2	
24	23	<i>Pythium parvum</i> strain CBS 225.88 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	1288	1288	100.00%	0	86.00%	AY598697.2	
25	23	<i>Pythium aquatile</i> strain CBS 215.80 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	1288	1288	100.00%	0	86.00%	AY598632.2	
26	26	<i>Pythium plurisporium</i> strain CBS 100530 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	1286	1286	100.00%	0	86.00%	AY598684.2	
27	27	<i>Pythium deliense</i> strain CBS 314.33 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	1284	1284	100.00%	0	86.00%	AY598674.2	
28	28	<i>Pythium pyrlobum</i> strain CBS 158.64 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	1279	1279	100.00%	0	86.00%	AY598636.2	
29	28	<i>Pythium aphanidermatum</i> strain CBS 118.80 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	1279	1279	100.00%	0	86.00%	AY598622.2	
30	30	<i>Pythium rostratifingens</i> voucher CBS115464 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	1262	1262	100.00%	0	85.00%	HQ643761.2	

[Figure 14]

H9-05-28S_D2C2

Search condition: Limit to sequences from type material

Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	Nannochloropsis gaditana strain SAG2.99 28S ribosomal RNA gene, partial sequence	193	193	36.00%	3.00E-46	86.00%	FJ030880.1	Nannochloropsis
2	2	Paraglomus occultum INVAM IA702 28S rRNA gene, partial sequence; from reference material	187	187	64.00%	1.00E-44	78.00%	NG_027567.1	Fungus
3	3	Developyella elegans strain CCAP1917/1 28S ribosomal RNA gene, partial sequence	183	183	79.00%	2.00E-43	76.00%	FJ030882.1	Oomycete
4	4	Sporobolomyces dimmenae gene for LSU rRNA, partial sequence, strain: JCM 8762	169	169	23.00%	5.00E-39	93.00%	AB644404.1	Fungus
5	4	Sporobolomyces corallinus genes for 18S rRNA, ITS1, 5.8S rRNA, ITS2, 28S rRNA, partial and complete sequence	169	169	23.00%	5.00E-39	93.00%	AB638335.1	Fungus
6	6	Pseudobaeospora wipapatiae SFSU DED 8605 28S rRNA gene, partial sequence; from TYPE material	167	167	33.00%	2.00E-38	86.00%	NG_060108.1	
7	6	Pseudobaeospora wipapatiae voucher DED 8605 25S large subunit ribosomal RNA gene, partial sequence	167	167	33.00%	2.00E-38	86.00%	KC464330.1	
8	8	Afrocastellanoa ivoryana OSC 150014 28S rRNA gene, partial sequence; from TYPE material	161	161	33.00%	8.00E-37	85.00%	NG_058595.1	
9	8	Afrocastellanoa ivoryana voucher OSC 150014 28S ribosomal RNA gene, partial sequence	161	161	33.00%	8.00E-37	85.00%	KX685720.1	
10	8	Borofutus dhakanus HKAS 73785 28S rRNA, partial sequence; from TYPE material	161	161	33.00%	8.00E-37	85.00%	NG_042663.1	
11	8	Spongiforma squarepantsii voucher LHFB14 28S ribosomal RNA gene, partial sequence	161	161	33.00%	8.00E-37	85.00%	HQ724509.1	
12	8	Spongiforma thailandica BBH DED 7873 28S rRNA, partial sequence; from TYPE material	161	161	33.00%	8.00E-37	85.00%	NG_042464.1	
13	13	Minimedusa polyspora strain CBS 113.16 large subunit ribosomal RNA gene, partial sequence	158	158	33.00%	1.00E-35	84.00%	MH866167.1	
14	13	Malassezia equina CBS 9969 28S rRNA gene, partial sequence; from TYPE material	158	158	34.00%	1.00E-35	84.00%	NG_060248.1	
15	13	Phyllozoma linderiae CBS 7893 28S rRNA gene, partial sequence; from TYPE material	158	158	32.00%	1.00E-35	85.00%	NG_058372.1	
16	13	Phyllozoma coprosmicola CBS 7897 28S rRNA gene, partial sequence; from TYPE material	158	158	32.00%	1.00E-35	85.00%	NG_058371.1	
17	13	Phyllozoma subbrunnea CBS 7196 28S rRNA gene, partial sequence; from TYPE material	158	158	32.00%	1.00E-35	85.00%	NG_057732.1	
18	13	Minimedusa polyspora CBS 113.16 28S rRNA gene, partial sequence; from TYPE material	158	158	33.00%	1.00E-35	84.00%	NG_057640.1	
19	13	Phyllozoma subbrunnea culture CBS:7196 large subunit ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	KY108779.1	
20	13	Phyllozoma linderiae culture CBS:7893 large subunit ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	KY108777.1	
21	13	Phyllozoma coprosmicola culture CBS:7897 large subunit ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	KY108776.1	
22	13	Minimedusa polyspora gene for 28S rRNA, partial sequence, strain: CBS 113.16	158	158	33.00%	1.00E-35	84.00%	AB972779.1	
23	13	Malassezia equina strain MA 146 26S ribosomal RNA gene, partial sequence	158	158	34.00%	1.00E-35	84.00%	AY743621.1	
24	13	Sporobolomyces subbrunneus isolate AFTOL-ID 858 25S large subunit ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	AY745717.1	
25	13	Phyllozoma subbrunnea strain CBS 7196 26S ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	AF189997.1	
26	13	Phyllozoma linderiae strain CBS 7893 26S ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	AF189989.1	
27	13	Phyllozoma coprosmicola strain CBS 7897 26S ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	AF189981.1	
28	13	Sporobolomyces linderiae 26S ribosomal RNA gene, partial sequence	158	158	32.00%	1.00E-35	85.00%	AF207890.1	
29	29	Hydnum berkeleyanum voucher KD-MEH 17-005 large subunit ribosomal RNA gene, partial sequence	156	156	32.00%	4.00E-35	85.00%	MG972970.1	
30	29	Gastrum verrucoramulosum INPA 264956 28S rRNA gene, partial sequence; from TYPE material	156	156	33.00%	4.00E-35	84.00%	NG_060680.1	
31	29	Clavulina ossea URM 89970 28S rRNA gene, partial sequence; from TYPE material	156	156	32.00%	4.00E-35	84.81%	NG_058957.1	
32	29	Clavulina ossea culture URM<BRA>:89970 large subunit ribosomal RNA gene, partial sequence	156	156	32.00%	4.00E-35	84.81%	KX811197.1	
33	29	Gastrum verrucoramulosum voucher INPA264956 25S ribosomal RNA gene, partial sequence	156	156	33.00%	4.00E-35	84.38%	KX670831.1	
34	29	Burgella flavoparmeliae strain JL192-01 25S large subunit ribosomal RNA gene, partial sequence	156	156	32.00%	4.00E-35	84.81%	DQ915469.1	

[Figure 15]

H9-05-28S_D2R2

Search condition: Limit to sequences from type material

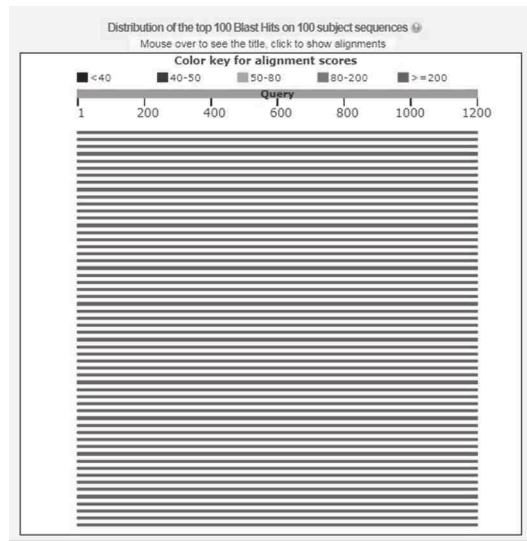
Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	<i>Chlorellidium tetrabotrys</i> strain SAG811-1 28S ribosomal RNA gene, partial sequence	215	215	48.00%	6.00E-53	84.21%	FJ030881.1	Yellow-green algae
2	2	<i>Fimicolochytrium jonesii</i> JEL 569 28S rRNA gene, partial sequence; from TYPE material	206	206	48.00%	4.00E-50	83.56%	NG_060391.1	Fungus
3	2	<i>Fimicolochytrium jonesii</i> voucher JEL569 28S large subunit ribosomal RNA gene, partial sequence	206	206	48.00%	4.00E-50	83.56%	HQ901681.1	Fungus
4	4	<i>Geranomyces variabilis</i> voucher MP03 28S large subunit ribosomal RNA gene, partial sequence	200	200	48.00%	2.00E-48	83.33%	HQ901692.1	Fungus
5	5	<i>Thoreauomyces humboldtii</i> JEL 95 28S rRNA gene, partial sequence; from TYPE material	198	198	48.00%	7.00E-48	83.19%	NG_059938.1	Fungus
6	5	<i>Thoreauomyces humboldtii</i> voucher JEL95 28S large subunit ribosomal RNA gene, partial sequence	198	198	48.00%	7.00E-48	83.19%	HQ901662.1	
7	5	<i>Spizellomyces acuminatus</i> 28S ribosomal RNA (LSU) gene, partial sequence	198	198	48.00%	7.00E-48	83.11%	JN941010.1	
8	5	<i>Phlyctochytrium africanum</i> voucher CBS 454.65 28S ribosomal RNA gene, partial sequence	198	198	48.00%	7.00E-48	83.11%	FJ827693.1	
9	9	<i>Holtermanniella wattica</i> CBS 9496 28S rRNA gene, partial sequence; from TYPE material	196	196	48.00%	2.00E-47	82.89%	NG_058307.1	
10	9	<i>Holtermanniella wattica</i> culture CBS:9496 large subunit ribosomal RNA gene, partial sequence	196	196	48.00%	2.00E-47	82.89%	KY107874.1	
11	11	<i>Fimicolochytrium alabamiae</i> JEL 538 28S rRNA gene, partial sequence; from TYPE material	195	195	48.00%	8.00E-47	82.67%	NG_060390.1	
12	11	<i>Fimicolochytrium alabamiae</i> voucher JEL538 28S large subunit ribosomal RNA gene, partial sequence	195	195	48.00%	8.00E-47	82.67%	HQ901669.1	
13	11	<i>Gorgonomycetes haynaldii</i> BAFc ARG 026 28S rRNA, partial sequence; from TYPE material	195	195	47.00%	8.00E-47	83.11%	NG_042448.1	
14	14	<i>Ceriporiopsis semisupina</i> BJFC Cui 10222 28S rRNA gene, partial sequence; from TYPE material	193	193	48.00%	3.00E-46	82.68%	NG_064354.1	
15	14	<i>Ceriporiopsis</i> sp. CLZ-2014 voucher Cui 10222 28S large subunit ribosomal RNA gene, partial sequence	193	193	48.00%	3.00E-46	82.68%	KF845949.1	
16	14	<i>Sonoraphlyctis ranzonii</i> DAOM BR 060 28S rRNA, partial sequence; from TYPE material	193	193	48.00%	3.00E-46	82.74%	NG_042454.1	
17	17	<i>Basidioascus undulatus</i> strain CBS 133763 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	MH877552.1	
18	17	<i>Piskurozyma taiwanensis</i> CBS 9813 28S rRNA gene, partial sequence; from TYPE material	191	191	48.00%	1.00E-45	82.46%	NG_058375.1	
19	17	<i>Goffeauzyma gastrica</i> CBS 2288 28S rRNA gene, partial sequence; from TYPE material	191	191	48.00%	1.00E-45	82.46%	NG_058296.1	
20	17	<i>Goffeauzyma aciditolerans</i> CBS 10872 28S rRNA gene, partial sequence; from TYPE material	191	191	48.00%	1.00E-45	82.46%	NG_058295.1	
21	17	<i>Solicoccozyma aerea</i> culture CBS:155 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY109666.1	
22	17	<i>Piskurozyma taiwanensis</i> culture CBS:9813 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY108934.1	
23	17	<i>Piskurozyma cylindrica</i> culture CBS:8680 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY108932.1	
24	17	<i>Naganishia globosa</i> culture CBS:5106 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY108616.1	
25	17	<i>Naganishia friedmannii</i> culture CBS:7160 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY108613.1	
26	17	<i>Goffeauzyma gastrica</i> culture CBS:2288 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY107764.1	
27	17	<i>Goffeauzyma aciditolerans</i> culture CBS:10872 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY107763.1	
28	17	<i>Filobasidium wieringae</i> culture CBS:1937 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.38%	KY107733.1	
29	17	<i>Filobasidium magnum</i> culture CBS:140 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.38%	KY107722.1	
30	17	<i>Filobasidium globisporum</i> culture CBS:7642 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.38%	KY107713.1	
31	17	<i>Filobasidium floriforme</i> culture CBS:6241 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.38%	KY107703.1	
32	17	[<i>Cryptococcus</i>] <i>consortionis</i> culture CBS:7159 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY106981.1	
33	17	[<i>Cryptococcus</i>] <i>albidus</i> var. <i>ovalis</i> culture CBS:5810 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY106965.1	
34	17	[<i>Cryptococcus</i>] <i>albidus</i> var. <i>kuezingii</i> culture CBS:1926 large subunit ribosomal RNA gene, partial sequence	191	191	48.00%	1.00E-45	82.46%	KY106960.1	
35	17	<i>Geminibasidium hirsutum</i> DAOM 241969 28S rRNA, partial sequence; from TYPE material	191	191	48.00%	1.00E-45	82.46%	NG_042695.1	
36	17	<i>Geminibasidium donsium</i> DAOM 241966 28S rRNA, partial sequence; from TYPE material	191	191	48.00%	1.00E-45	82.46%	NG_042694.1	
37	17	<i>Basidioascus magus</i> DAOM 241948 28S rRNA, partial sequence; from TYPE material	191	191	48.00%	1.00E-45	82.46%	NG_042693.1	
38	17	<i>Basidioascus undulatus</i> DAOM 241956 28S rRNA, partial sequence; from TYPE material	191	191	48.00%	1.00E-45	82.46%	NG_042692.1	

[Figure 16]

H9-06-18S

Search condition: global search excluding environmental sequences

Sequ ence numb er	Numb er by numb er	Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order
1	1		Entomoneis paludosa isolate L431 18S ribosomal RNA gene, partial sequence	2121	2121	100.00%	0	99.00%	KX120688.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
2	2		Entomoneis ornata isolate 27D 18S ribosomal RNA gene, partial sequence	2104	2104	100.00%	0	98.00%	KX120693.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
3	2		Entomoneis ornata strain 14A 18S small subunit ribosomal RNA gene, partial sequence	2104	2104	100.00%	0	98.00%	HQ912411.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
4	3		Entomoneis infula voucher PMFT2EN2 18S small subunit ribosomal RNA gene, partial sequence	2093	2093	100.00%	0	98.00%	MF000603.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
5	3		Entomoneis cf. alata strain Xmm8S2 18S ribosomal RNA gene, partial sequence	2093	2093	100.00%	0	98.00%	KY054953.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
6	3		Entomoneis punctulata isolate DHmm4W3 18S ribosomal RNA gene, partial sequence	2093	2093	100.00%	0	98.00%	KU561123.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
7	3		Entomoneis punctulata isolate DHmm3W1 18S ribosomal RNA gene, partial sequence	2093	2093	100.00%	0	98.00%	KU561111.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
8	3		Entomoneis sp. CCMP2396 18S ribosomal RNA gene, partial sequence	2093	2093	100.00%	0	98.00%	KF899836.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
9	9		Entomoneis sp. isolate B3A 18S ribosomal RNA gene, partial sequence	2089	2089	100.00%	0	98.00%	KX120691.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
10	10		Entomoneis sp. strain SA18 Ento-C1 small subunit ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	MH063466.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
11	10		Epithemia argus strain Xmm11S3 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KY054960.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Rhopalodiales Kushigatakeiso order
12	10		Entomoneis punctulata strain NZmm1S1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KY054959.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
13	10		Entomoneis punctulata strain Xmm28W1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KY054958.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
14	10		Entomoneis punctulata strain Xmm21S1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KY054957.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
15	10		Entomoneis punctulata strain Xmm5S2 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KY054956.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
16	10		Entomoneis punctulata strain Xmm15S2 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KY054954.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
17	10		Entomoneis ornata strain Xmm5S1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KY054952.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
18	10		Entomoneis punctulata isolate Xmm26S1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561212.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
19	10		Entomoneis punctulata isolate Xmm39S3 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561203.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
20	10		Entomoneis punctulata isolate Xmm34S3 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561187.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
21	10		Entomoneis punctulata isolate Xmm1W5 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561182.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
22	10		Amphiprora paludosa isolate mXm17S2 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561173.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
23	10		Entomoneis punctulata isolate Xmm23W1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561168.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
24	10		Entomoneis ornata isolate Xmm11S1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561167.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
25	10		Amphiprora paludosa var. hyalina isolate Xmm39S4 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561162.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
26	10		Amphiprora paludosa var. hyalina isolate Xmm15S4 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561161.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
27	10		Entomoneis ornata isolate Xmm4S1 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561144.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
28	10		Amphiprora paludosa var. hyalina isolate Xmm15S3 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561143.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Naviculales Funekeiso order
29	10		Entomoneis punctulata isolate DHmm4W2 18S ribosomal RNA gene, partial sequence	2087	2087	100.00%	0	98.00%	KU561113.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
30	11		Entomoneis cf. alata 18S rRNA gene, clone p540	2085	2085	100.00%	0	98.00%	AJ535160.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order

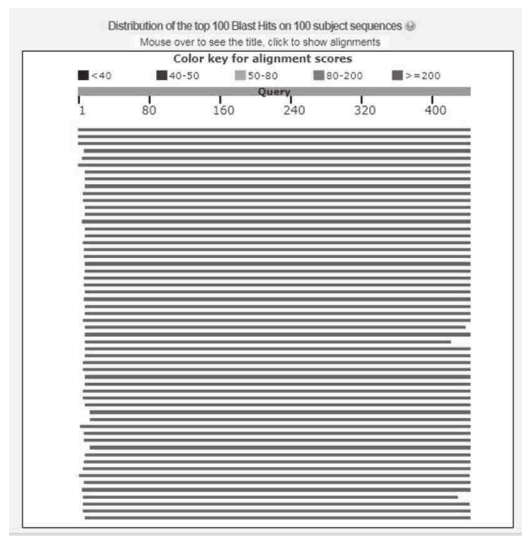


[Figure 17]

H9-06-28S.D2C2

Search condition: global search excluding environmental sequences

Seque nce num ber	Numb er by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order
1	1	Entomoneis ornata isolate 27D 28S ribosomal RNA gene, partial sequence	604	604	100.00%	6.00E-169	91.00%	KX120361.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
2	1	Entomoneis ornata isolate 14A 28S ribosomal RNA gene, partial sequence	604	604	100.00%	6.00E-169	91.00%	KX120336.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
3	3	Entomoneis paludosa isolate L431 28S ribosomal RNA gene, partial sequence	593	593	100.00%	1.00E-165	91.00%	KX120357.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
4	4	Entomoneis sp. isolate 3564.E1.1 28S ribosomal RNA gene, partial sequence	568	568	98.00%	8.00E-158	90.00%	KX120365.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
5	5	Protokeelia bassonii isolate 3564.A20 28S ribosomal RNA gene, partial sequence	564	564	99.00%	1.00E-156	90.00%	KX120350.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Rhopalodiales Kushigatakeiso order
6	6	Entomoneis sp. isolate CC8 28S ribosomal RNA gene, partial sequence	562	562	100.00%	4.00E-156	89.00%	KX120355.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
7	7	Surirella cf. pinnata isolate 34C 28S ribosomal RNA gene, partial sequence	558	558	98.00%	5.00E-155	90.00%	KX120394.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
8	8	Surirella brightwellii isolate CCMP3162 28S ribosomal RNA gene, partial sequence	553	553	98.00%	2.00E-153	89.00%	KX120391.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
9	8	Surirella brightwellii isolate L1753 28S ribosomal RNA gene, partial sequence	553	553	98.00%	2.00E-153	89.00%	KX120390.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
10	8	Entomoneis sp. strain 99SK2-4 large subunit ribosomal RNA gene, partial sequence	553	553	98.00%	2.00E-153	89.00%	AF417683.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
11	11	Entomoneis sp. isolate B3A 28S ribosomal RNA gene, partial sequence	549	549	98.00%	3.00E-152	89.00%	KX120360.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
12	12	Surirella angusta isolate nycSur 28S ribosomal RNA gene, partial sequence	547	547	98.00%	1.00E-151	89.00%	KX120400.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
13	12	Surirella sp. isolate 18.2 28S ribosomal RNA gene, partial sequence	547	547	98.00%	1.00E-151	89.00%	KX120395.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
14	12	Campylodiscus sp. isolate GCCT30 28S ribosomal RNA gene, partial sequence	547	547	99.00%	1.00E-151	89.00%	KX120375.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
15	12	Surirella angusta strain WC2 28S ribosomal RNA gene, partial sequence	547	547	98.00%	1.00E-151	89.00%	JX032944.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
16	16	Surirella brebissonii isolate KR1 28S ribosomal RNA gene, partial sequence	542	542	98.00%	5.00E-150	89.00%	KX120397.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
17	16	Entomoneis paludosa isolate CCAP1003.4 28S ribosomal RNA gene, partial sequence	542	542	98.00%	5.00E-150	89.00%	KX120359.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
18	18	Surirella cf. linearis isolate B600 28S ribosomal RNA gene, partial sequence	540	540	98.00%	2.00E-149	89.00%	KX120423.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
19	18	Surirella sp.1 ECR-2011 isolate LO299 28S ribosomal RNA gene, partial sequence	538	538	98.00%	6.00E-149	89.00%	JX032888.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
20	20	Surirella ovalis var. apiculata isolate L295 28S ribosomal RNA gene, partial sequence	536	536	98.00%	2.00E-148	89.00%	KX120388.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
21	20	Surirella minuta isolate JGOH.5 28S ribosomal RNA gene, partial sequence	536	536	98.00%	2.00E-148	89.00%	KX120387.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
22	22	Surirella helissella isolate LO120 28S ribosomal RNA gene, partial sequence	534	534	98.00%	8.00E-148	88.00%	JX032882.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
23	23	Surirella iconella isolate LO159 28S ribosomal RNA gene, partial sequence	532	532	98.00%	3.00E-147	88.00%	JX032883.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
24	24	Surirella sp. isolate LS1 28S ribosomal RNA gene, partial sequence	531	531	98.00%	1.00E-146	88.00%	KX120399.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
25	24	Campylodiscus sp. isolate GCCT6 28S ribosomal RNA gene, partial sequence	531	531	98.00%	1.00E-146	88.00%	KX120372.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
26	26	Cymatopleura solea isolate B484 28S ribosomal RNA gene, partial sequence	525	525	98.00%	5.00E-145	88.00%	KX120418.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
27	26	Surirella sp. isolate 27G 28S ribosomal RNA gene, partial sequence	525	525	98.00%	5.00E-145	88.00%	KX120393.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
28	28	Surirella cf. spiralis isolate B568 28S ribosomal RNA gene, partial sequence	523	523	98.00%	2.00E-144	88.00%	KX120422.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
29	29	Cymatopleura solea strain L1348 28S ribosomal RNA gene, partial sequence	521	521	97.00%	6.00E-144	88.00%	JX032942.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order
30	30	Cymatopleura solea isolate L1453 28S ribosomal RNA gene, partial sequence	520	520	98.00%	2.00E-143	88.00%	KX120381.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Surirellales Kobankeiso order

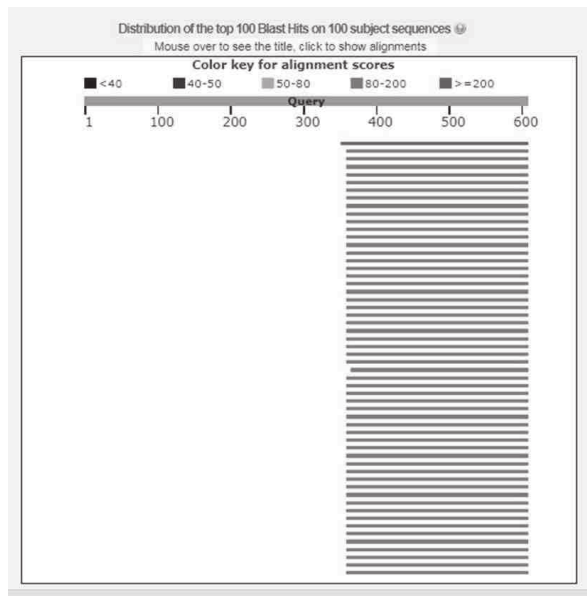


[Figure 18]

H9-06-28S.D2R2

Search condition: global search excluding environmental sequences

Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	Vannella septentrionalis 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.	311	311	42.00%	1.00E-80	88.00%	GU001161.1	Ameba
2	2	Glomus sp. MUCL 43205 28S rRNA gene, strain MUCL 43205, clone 11	165	165	41.00%	1.00E-36	79.00%	AJ854611.1	Fungus
3	3	Rhizophagus irregularis partial 28S rRNA gene, strain DAOM229456, isolate spore 3, clone 03L2.16.9	159	159	41.00%	5.00E-35	79.00%	HF969006.1	Fungus
4	3	Rhizophagus irregularis partial 28S rRNA gene, strain DAOM229456, isolate spore 3, clone 03L2.16.8	159	159	41.00%	5.00E-35	79.00%	HF969005.1	Fungus
5	3	Rhizophagus irregularis partial 28S rRNA gene, strain DAOM229456, isolate spore 3, clone 03L2.16.7	159	159	41.00%	5.00E-35	79.00%	HF969004.1	Fungus
6	3	Rhizophagus irregularis partial 28S rRNA gene, strain DAOM229456, isolate spore 2, clone 03L2.7.22	159	159	41.00%	5.00E-35	79.00%	HF968997.1	Fungus
7	3	Rhizophagus irregularis partial 28S rRNA gene, strain DAOM229456, isolate spore 2, clone 03L2.7.5	159	159	41.00%	5.00E-35	79.00%	HF968996.1	Fungus
8	3	Rhizophagus irregularis partial 28S rRNA gene, strain DAOM229456, isolate spore 2, clone 03L2.7.14	159	159	41.00%	5.00E-35	79.00%	HF968994.1	Fungus
9	3	Glomus sp. MUCL 41833 28S rRNA gene, strain MUCL 41833, clone 11	159	159	41.00%	5.00E-35	79.00%	AJ854654.1	Fungus
10	3	Glomus sp. MUCL 41833 28S rRNA gene, strain MUCL 41833, clone 10	159	159	41.00%	5.00E-35	79.00%	AJ854653.1	Fungus
11	3	Glomus sp. MUCL 41835 28S rRNA gene, strain MUCL 41835, clone 2	159	159	41.00%	5.00E-35	79.00%	AJ854641.1	Fungus
12	3	Glomus sp. MUCL 41835 28S rRNA gene, strain MUCL 41835, clone 1	159	159	41.00%	5.00E-35	79.00%	AJ854640.1	Fungus
13	3	Glomus sp. MUCL 43207 28S rRNA gene, strain MUCL 43207, clone 3	159	159	41.00%	5.00E-35	79.00%	AJ854625.1	Fungus
14	3	Glomus sp. MUCL 43206 28S rRNA gene, strain MUCL 43206, clone 10	159	159	41.00%	5.00E-35	79.00%	AJ854622.1	Fungus
15	3	Glomus sp. MUCL 43206 28S rRNA gene, strain MUCL 43206, clone 9	159	159	41.00%	5.00E-35	79.00%	AJ854621.1	Fungus
16	3	Glomus sp. MUCL 43206 28S rRNA gene, strain MUCL 43206, clone 6	159	159	41.00%	5.00E-35	79.00%	AJ854618.1	Fungus
17	3	Glomus sp. MUCL 43206 28S rRNA gene, strain MUCL 43206, clone 5	159	159	41.00%	5.00E-35	79.00%	AJ854617.1	Fungus
18	3	Glomus sp. MUCL 43206 28S rRNA gene, strain MUCL 43206, clone 2	159	159	41.00%	5.00E-35	79.00%	AJ854614.1	Fungus
19	3	Glomus sp. MUCL 43206 28S rRNA gene, strain MUCL 43206, clone 1	159	159	41.00%	5.00E-35	79.00%	AJ854613.1	Fungus
20	3	Glomus sp. MUCL 43205 28S rRNA gene, strain MUCL 43205, clone 6	159	159	41.00%	5.00E-35	79.00%	AJ854606.1	Fungus
21	3	Glomus sp. MUCL 43205 28S rRNA gene, strain MUCL 43205, clone 2	159	159	41.00%	5.00E-35	79.00%	AJ854602.1	Fungus
22	3	Glomus sp. MUCL 43205 28S rRNA gene, strain MUCL 43205, clone 1	159	159	41.00%	5.00E-35	79.00%	AJ854601.1	Fungus
23	3	Glomus sp. MUCL 43204 28S rRNA gene, strain MUCL 43204, clone 5	159	159	41.00%	5.00E-35	79.00%	AJ854597.1	Fungus
24	3	Glomus sp. MUCL 43204 28S rRNA gene, strain MUCL 43204, clone 3	159	159	41.00%	5.00E-35	79.00%	AJ854596.1	Fungus
25	3	Glomus sp. MUCL 43204 28S rRNA gene, strain MUCL 43204, clone 2	159	159	41.00%	5.00E-35	79.00%	AJ854595.1	Fungus
26	3	Glomus sp. MUCL 43203 28S rRNA gene, strain MUCL 43203, clone 11	159	159	41.00%	5.00E-35	79.00%	AJ854593.1	Fungus
27	3	Glomus sp. MUCL 43203 28S rRNA gene, strain MUCL 43203, clone 8	159	159	41.00%	5.00E-35	79.00%	AJ854591.1	Fungus
28	3	Glomus sp. MUCL 43203 28S rRNA gene, strain MUCL 43203, clone 7	159	159	41.00%	5.00E-35	79.00%	AJ854590.1	Fungus
29	3	Glomus sp. MUCL 43203 28S rRNA gene, strain MUCL 43203, clone 1	159	159	41.00%	5.00E-35	79.00%	AJ854584.1	Fungus
30	30	Chaetothyriales sp. TRN488 isolate TRN 488 large subunit ribosomal RNA gene, partial sequence	156	156	39.00%	7.00E-34	79.00%	FJ358262.1	Fungus
31	30	Glomus sp. MUCL 43205 28S rRNA gene, strain MUCL 43205, clone 4	156	156	41.00%	1.00E-33	78.57%	AJ854604.1	Fungus



[Figure 19]

H9-06-18S

Search condition: Limit to sequences from type material

Sequ ence num ber	Numb er by numb er	Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1		<i>Fistulifera solaris</i> gene for 18S ribosomal RNA, partial sequence	1886	1886	100.00%	0	95.00%	AB769957.1	Bacillariophyta
2	2		<i>Pedospumella encystans</i> voucher B 40 0040671 18S ribosomal RNA gene, partial sequence	1524	1524	100.00%	0	90.00%	AY651083.1	Golden algae
3	3		<i>Chlorellidium tetrabotrys</i> strain SAG811-1 18S ribosomal RNA gene, partial sequence	1519	1519	100.00%	0	89.00%	FJ030892.1	Yellow-green algae
4	4		<i>Heterococcus fuernensis</i> partial 18S rRNA gene, strain SAG 835-5	1507	1507	100.00%	0	89.00%	AM490821.1	Yellow-green algae
5	4		<i>Heterococcus caespitosus</i> partial 18S rRNA gene, strain SAG 835-2a	1507	1507	100.00%	0	89.00%	AM490820.1	Yellow-green algae
6	4		<i>Sphaerosorus composita</i> partial 18S rRNA gene, strain SAG 53.91	1507	1507	100.00%	0	89.00%	AJ579333.1	
7	7		<i>Bumilleriopsis pyrenoidosa</i> partial 18S rRNA gene, strain SAG 69.90	1489	1489	100.00%	0	89.00%	AJ579332.1	
8	8		<i>Nannochloropsis limnetica</i> strain SAG 18.99 culture-collection SAG:18.99 18S ribosomal RNA gene, partial sequence	1483	1483	100.00%	0	89.00%	AF251496.1	
9	9		<i>Pseudotetraedriella kamillae</i> strain SAG 2056 18S ribosomal RNA gene, partial sequence	1467	1467	100.00%	0	89.00%	EF044311.1	
10	10		<i>Vischeria helvetica</i> strain SAG 876-1 18S ribosomal RNA gene, complete sequence	1463	1463	100.00%	0	89.00%	JX188080.1	
11	11		<i>Eustigmatos vischeri</i> isolate SAG 860-1 18S ribosomal RNA gene, complete sequence	1458	1458	100.00%	0	89.00%	JX274590.1	
12	11		<i>Eustigmatos polyphem</i> strain SAG 38.84 18S ribosomal RNA gene, complete sequence	1458	1458	100.00%	0	89.00%	JX188077.1	
13	11		<i>Spumella vulgaris</i> isolate 199hm 18S ribosomal RNA gene, partial sequence	1458	1458	100.00%	0	89.00%	DQ388552.1	
14	14		<i>Monodus unipapilla</i> partial 18S rRNA gene, strain SAG 8.83	1456	1456	100.00%	0	89.00%	AM490827.1	
15	15		<i>Ochromonas danica</i> strain SAG933.7 18S ribosomal RNA gene, partial sequence	1415	1415	100.00%	0	88.00%	JQ281514.1	
16	16		<i>Bumilleriopsis peterseniana</i> partial 18S rRNA gene, strain SAG 809-3	1393	1393	100.00%	0	87.00%	AJ579331.1	
17	17		<i>Pythium insidiosum</i> 18S ribosomal RNA gene, partial sequence	1338	1338	100.00%	0	87.00%	AF289981.1	
18	18		<i>Sargassococcus simulans</i> strain CCMP1996 18S ribosomal RNA gene, partial sequence	1330	1330	100.00%	0	87.00%	MF927481.1	
19	18		<i>Pelagospilus aureus</i> strain CCMP1410 18S ribosomal RNA gene, partial sequence	1330	1330	100.00%	0	87.00%	MF927480.1	
20	20		<i>Olpidopsis heterosiphoniae</i> isolate KNU-M-omc4 18S ribosomal RNA gene, partial sequence	1325	1325	100.00%	0	87.00%	MF838767.1	
21	21		<i>Sargassococcus epiphyticus</i> strain CCMP1995 18S ribosomal RNA gene, partial sequence	1319	1319	100.00%	0	87.00%	MF927478.1	
22	22		<i>Pythium grandisporangium</i> strain CBS 286.79 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	1306	1306	100.00%	0	86.00%	AY598692.2	
23	23		<i>Lagenidium giganteum</i> f. caninum isolate C13-AK202 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	1301	1301	100.00%	0	86.00%	KF915305.2	
24	23		<i>Pythium parvum</i> strain CBS 225.88 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	1301	1301	100.00%	0	86.00%	AY598697.2	
25	23		<i>Pythium aquatile</i> strain CBS 215.80 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	1301	1301	100.00%	0	86.00%	AY598632.2	
26	26		<i>Pythium plurisporium</i> strain CBS 100530 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	1299	1299	100.00%	0	86.00%	AY598684.2	
27	27		<i>Pythium deliense</i> strain CBS 314.33 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	1297	1297	100.00%	0	86.00%	AY598674.2	
28	28		<i>Pythium pyriforme</i> strain CBS 158.64 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	1291	1291	100.00%	0	86.00%	AY598636.2	
29	28		<i>Pythium aphanidermatum</i> strain CBS 118.80 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	1291	1291	100.00%	0	86.00%	AY598622.2	
30	30		<i>Pythium rostratifolium</i> voucher CBS115464 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	1275	1275	100.00%	0	86.00%	HQ643761.2	

[Figure 20]

H9-06-28S_D2C2

Search condition: Limit to sequences from type material

Sequ ence num ber	Numbe r by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	Nannochloropsis gaditana strain SAG2.99 28S ribosomal RNA gene, partial sequence	189	189	40.00%	3.00E-45	86.00%	FJ030880.1	Nannochloropsis
2	2	Developayella elegans strain CCAP1917/1 28S ribosomal RNA gene, partial sequence	172	172	59.00%	3.00E-40	79.00%	FJ030882.1	Oomycete
3	3	Sporobolomyces dimmenae gene for LSU rRNA, partial sequence, strain: JCM 8762	169	169	26.00%	4.00E-39	93.00%	AB644404.1	Fungus
4	3	Sporobolomyces corallinus genes for 18S rRNA, ITS1, 5.8S rRNA, ITS2, 28S rRNA, partial and complete sequence	169	169	26.00%	4.00E-39	93.00%	AB638335.1	Fungus
5	5	Paraglomus occultum INVAM IA702 28S rRNA gene, partial sequence; from reference material	167	167	41.00%	2.00E-38	83.00%	NG_027567.1	Fungus
6	6	Pseudobaeospora wipapatiae SFSU DED 8605 28S rRNA gene, partial sequence; from TYPE material	163	163	25.00%	2.00E-37	93.00%	NG_060108.1	
7	6	Pseudobaeospora wipapatiae voucher DED 8605 25S large subunit ribosomal RNA gene, partial sequence	163	163	25.00%	2.00E-37	93.00%	KC464330.1	
8	8	Afrocastellanoa ivoryana OSC 150014 28S rRNA gene, partial sequence; from TYPE material	158	158	25.00%	1.00E-35	92.00%	NG_058595.1	
9	8	Afrocastellanoa ivoryana voucher OSC 150014 28S ribosomal RNA gene, partial sequence	158	158	25.00%	1.00E-35	92.00%	KX685720.1	
10	8	Borofutus dhakanus HKAS 73785 28S rRNA, partial sequence; from TYPE material	158	158	25.00%	1.00E-35	92.00%	NG_042663.1	
11	8	Spongiforma squarepantsii voucher LHFB14 28S ribosomal RNA gene, partial sequence	158	158	25.00%	1.00E-35	92.00%	HQ724509.1	
12	8	Spongiforma thailandica BBH DED 7873 28S rRNA, partial sequence; from TYPE material	158	158	25.00%	1.00E-35	92.00%	NG_042464.1	
13	13	Phyllozoma linderæ CBS 7893 28S rRNA gene, partial sequence; from TYPE material	156	156	25.00%	3.00E-35	92.00%	NG_058372.1	
14	13	Phyllozoma coprosmicola CBS 7897 28S rRNA gene, partial sequence; from TYPE material	156	156	25.00%	3.00E-35	92.00%	NG_058371.1	
15	13	Phyllozoma subbrunnea CBS 7196 28S rRNA gene, partial sequence; from TYPE material	156	156	25.00%	3.00E-35	92.00%	NG_057732.1	
16	13	Phyllozoma subbrunnea culture CBS:7196 large subunit ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	KY108779.1	
17	13	Phyllozoma linderæ culture CBS:7893 large subunit ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	KY108777.1	
18	13	Phyllozoma coprosmicola culture CBS:7897 large subunit ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	KY108776.1	
19	13	Sporobolomyces subbrunneus isolate AFTOL-ID 858 25S large subunit ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	AY745717.1	
20	13	Phyllozoma subbrunnea strain CBS 7196 26S ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	AF189997.1	
21	13	Phyllozoma linderæ strain CBS 7893 26S ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	AF189989.1	
22	13	Phyllozoma coprosmicola strain CBS 7897 26S ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	AF189981.1	
23	13	Sporobolomyces linderæ 26S ribosomal RNA gene, partial sequence	156	156	25.00%	3.00E-35	92.00%	AF207890.1	
24	24	Minimedusa polyspora strain CBS 113.16 large subunit ribosomal RNA gene, partial sequence	154	154	25.00%	1.00E-34	91.00%	MH866167.1	
25	24	Hydnum berkeleyanum voucher KD-MEH 17-005 large subunit ribosomal RNA gene, partial sequence	154	154	25.00%	1.00E-34	91.00%	MG972970.1	
26	24	Geastrum verrucoramulosum INPA 264956 28S rRNA gene, partial sequence; from TYPE material	154	154	25.00%	1.00E-34	91.00%	NG_060680.1	
27	24	Malassezia equina CBS 9969 28S rRNA gene, partial sequence; from TYPE material	154	154	37.00%	1.00E-34	84.00%	NG_060248.1	
28	24	Clavulina ossea URM 89970 28S rRNA gene, partial sequence; from TYPE material	154	154	25.00%	1.00E-34	91.00%	NG_058957.1	
29	24	Anthracoidea pamiroalaica KRA F-2012-146 28S rRNA gene, partial sequence; from TYPE material	154	154	25.00%	1.00E-34	92.00%	NG_058578.1	
30	24	Minimedusa polyspora CBS 113.16 28S rRNA gene, partial sequence; from TYPE material	154	154	25.00%	1.00E-34	91.00%	NG_057640.1	
31	24	Clavulina ossea culture URM<BRA>:89970 large subunit ribosomal RNA gene, partial sequence	154	154	25.00%	1.00E-34	91.15%	KX811197.1	
32	24	Geastrum verrucoramulosum voucher INPA264956 25S ribosomal RNA gene, partial sequence	154	154	25.00%	1.00E-34	91.15%	KX670831.1	
33	24	Anthracoidea pamiroalaica voucher KRA large subunit ribosomal RNA gene, partial sequence	154	154	25.00%	1.00E-34	91.82%	KT006854.1	
34	24	Minimedusa polyspora gene for 28S rRNA, partial sequence, strain: CBS 113.16	154	154	25.00%	1.00E-34	91.15%	AB972779.1	
35	24	Burgella flavoparmeliae strain JL192-01 25S large subunit ribosomal RNA gene, partial sequence	154	154	25.00%	1.00E-34	91.15%	DQ915469.1	
36	24	Malassezia equina strain MA 146 26S ribosomal RNA gene, partial sequence	154	154	37.00%	1.00E-34	83.64%	AY743621.1	

[Figure 21]

H9-06-28S_D2R2

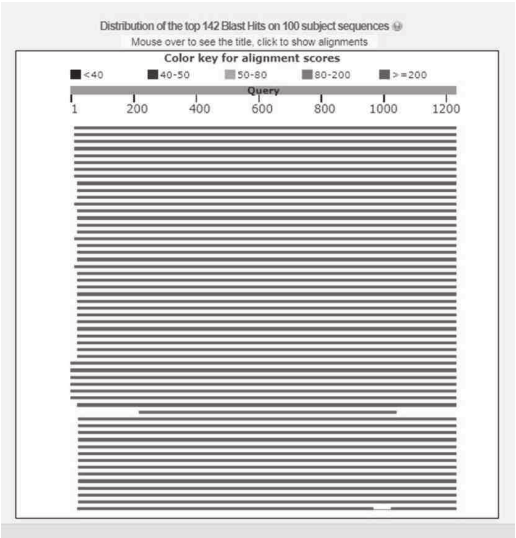
Search condition: Limit to sequences from type material

Sequ ence num ber	Numbe r by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	<i>Conidiobolus terrestris</i> CBS 345.65 28S rRNA gene, partial sequence; from TYPE material	150	150	39.00%	2.00E-33	79.00%	NG_064046.1	Fungus
2	1	<i>Conidiobolus terrestris</i> strain CBS 345.65 large subunit ribosomal RNA gene, partial sequence	150	150	39.00%	2.00E-33	79.00%	MH870240.1	Fungus
3	1	<i>Cladophialophora sylvestris</i> strain CBS 350.83 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	150	150	39.00%	2.00E-33	78.00%	EU035413.1	Fungus
4	4	<i>Nullicamycetes eucalypti</i> culture CPC:32942 28S ribosomal RNA gene, partial sequence	145	145	39.00%	1.00E-31	78.00%	MH327843.1	Fungus
5	4	<i>Gromochytrium mamkaevae</i> strain CALU x-51 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	145	145	39.00%	1.00E-31	78.00%	KF586842.1	Fungus
6	6	<i>Cladophialophora sylvestris</i> strain CBS 350.83 large subunit ribosomal RNA gene, partial sequence	143	143	39.00%	3.00E-31	78.00%	MH873324.1	
7	7	<i>Diplococcium mirabile</i> strain CBS 184.58 large subunit ribosomal RNA gene, partial sequence	139	139	39.00%	4.00E-30	78.00%	MH869282.1	
8	7	<i>Diplococcium mirabile</i> CBS 184.58 28S rRNA gene, partial sequence; from TYPE material	139	139	39.00%	4.00E-30	78.00%	NG_059075.1	
9	7	<i>Salpingoeca dolichothecata</i> strain ATCC 50959 28S large subunit ribosomal RNA gene, partial sequence	139	139	39.00%	4.00E-30	77.00%	KT757473.1	
10	7	<i>Cladophialophora minutissima</i> strain CBS 121758 28S ribosomal RNA gene, partial sequence	139	139	39.00%	4.00E-30	78.00%	KJ636047.1	
11	7	<i>Batrachochytrium salamandrivorans</i> CBS 135744 28S rRNA, partial sequence; from TYPE material	139	139	41.00%	4.00E-30	77.00%	NG_042774.1	
12	7	<i>Diplococcium mirabile</i> strain CBS 184.58 28S large subunit ribosomal RNA gene, partial sequence	139	139	39.00%	4.00E-30	78.00%	EF204494.1	
13	13	<i>Sugiyamaella bullrunensis</i> culture CBS:11840 large subunit ribosomal RNA gene, partial sequence	137	137	39.00%	2.00E-29	78.00%	KY106376.1	
14	14	<i>Variocladium giganteum</i> strain CBS 508.71 large subunit ribosomal RNA gene, partial sequence	135	135	39.00%	6.00E-29	77.00%	MH872007.1	
15	14	<i>Wickerhamomyces subpelliculosus</i> NRRL Y-1683 28S rRNA gene, partial sequence; from TYPE material	135	135	39.00%	6.00E-29	77.00%	NG_057173.1	
16	14	<i>Wickerhamomyces subpelliculosus</i> culture CBS:5767 large subunit ribosomal RNA gene, partial sequence	135	135	39.00%	6.00E-29	77.00%	KY110142.1	
17	14	<i>Priceomyces haplophilus</i> culture CBS:2028 large subunit ribosomal RNA gene, partial sequence	135	135	41.00%	6.00E-29	77.00%	KY108940.1	
18	14	<i>Priceomyces haplophilus</i> NRRL Y-7860 28S rRNA, partial sequence; from TYPE material	135	135	41.00%	6.00E-29	77.00%	NG_042633.1	
19	14	<i>Wickerhamomyces subpelliculosus</i> strain NRRL Y-1683 26S ribosomal RNA gene, partial sequence	135	135	39.00%	6.00E-29	77.00%	EF550340.1	
20	20	<i>Neometulocladosporiella eucalypti</i> culture CPC:31787 28S ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.00%	MH327836.1	
21	20	<i>Helicodendron microsporum</i> strain CBS 100149 large subunit ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.00%	MH874296.1	
22	20	<i>Helicodendron websteri</i> strain CBS 745.96 large subunit ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.00%	MH874234.1	
23	20	<i>Dimorphospora follicola</i> strain CBS 221.59 large subunit ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.00%	MH869385.1	
24	20	<i>Conidiobolus rhyosporus</i> ATCC 12588 28S rRNA gene, partial sequence; from TYPE material	134	134	38.00%	2.00E-28	78.00%	NG_058831.1	
25	20	<i>Helicodendron microsporum</i> CBS 100149 28S rRNA gene, partial sequence; from TYPE material	134	134	39.00%	2.00E-28	77.00%	NG_058155.1	
26	20	<i>Citeromyces matritensis</i> culture CBS:2764 large subunit ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.00%	KY106924.1	
27	20	<i>Bacillilcladium lobatum</i> genomic DNA sequence contains 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, isolate CCF 5200	134	134	39.00%	2.00E-28	77.00%	LT558703.1	
28	20	<i>Helicodendron microsporum</i> strain CBS 100149 28S ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.00%	KR078441.1	
29	20	<i>Citeromyces nyonsensis</i> partial 26S rRNA gene, strain CLIB 1303	134	134	39.00%	2.00E-28	77.00%	HF913658.1	
30	20	<i>Conidiobolus rhyosporus</i> strain ATCC 12588 28S ribosomal RNA gene, partial sequence	134	134	38.00%	2.00E-28	78.00%	JN131540.1	
31	20	<i>Helicodendron microsporum</i> CBS 100149 28S rRNA gene, partial sequence; from TYPE material	134	134	39.00%	2.00E-28	77.14%	NG_058155.1	
32	20	<i>Citeromyces matritensis</i> culture CBS:2764 large subunit ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.05%	KY106924.1	
33	20	<i>Bacillilcladium lobatum</i> genomic DNA sequence contains 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, isolate CCF 5200	134	134	39.00%	2.00E-28	77.14%	LT558703.1	
34	20	<i>Helicodendron microsporum</i> strain CBS 100149 28S ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.14%	KR078441.1	
35	20	<i>Citeromyces nyonsensis</i> partial 26S rRNA gene, strain CLIB 1303	134	134	39.00%	2.00E-28	77.05%	HF913658.1	
36	20	<i>Conidiobolus rhyosporus</i> strain ATCC 12588 28S ribosomal RNA gene, partial sequence	134	134	38.00%	2.00E-28	77.73%	JN131540.1	
37	20	<i>Citeromyces matritensis</i> NRRL Y-2407 28S rRNA, partial sequence; from TYPE material	134	134	39.00%	2.00E-28	77.05%	NG_042645.1	
38	20	<i>Clydaea vesicula</i> JEL 369 28S rRNA, partial sequence; from TYPE material	134	134	39.00%	2.00E-28	77.37%	NG_042443.1	
39	20	<i>Citeromyces matritensis</i> strain NRRL Y-2407 26S ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.05%	EF550346.1	
40	20	<i>Mitula brevispora</i> strain ZW02-012 25S large subunit ribosomal RNA gene, partial sequence	134	134	39.00%	2.00E-28	77.14%	AY789293.1	

[Figure 22]

H9-09-18S
Search condition: global search excluding environmental sequences

Sequence number	Number by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession
1	1	Caecitellus paraparvulus strain HFCC320 18S ribosomal RNA gene, partial sequence	2034	2034	99.00%	0	97.00%	DQ220717.1 Bicosoeca
2	1	Caecitellus paraparvulus strain HFCC314 18S ribosomal RNA gene, partial sequence	2034	2034	99.00%	0	97.00%	DQ220716.1 Bicosoeca
3	1	Caecitellus paraparvulus strain HFCC313 18S ribosomal RNA gene, partial sequence	2034	2034	99.00%	0	97.00%	DQ220715.1 Bicosoeca
4	1	Caecitellus paraparvulus strain HFCC312 18S ribosomal RNA gene, partial sequence	2034	2034	99.00%	0	97.00%	DQ220714.1 Bicosoeca
5	1	Caecitellus parvulus strain HFCC301 18S ribosomal RNA gene, partial sequence	2034	2034	99.00%	0	97.00%	AY827848.1 Bicosoeca
6	1	Caecitellus parvulus strain HFCC300 18S ribosomal RNA gene, partial sequence	2034	2034	99.00%	0	97.00%	AY827847.1 Bicosoeca
7	7	Caecitellus paraparvulus strain HFCC71 18S ribosomal RNA gene, partial sequence	2030	2030	99.00%	0	97.00%	DQ220713.1 Bicosoeca
8	8	Caecitellus paraparvulus isolate BH56.32 small subunit ribosomal RNA gene, partial sequence	2028	2028	99.00%	0	97.00%	KY980259.1 Bicosoeca
9	9	Caecitellus paraparvulus isolate BH46.11 small subunit ribosomal RNA gene, partial sequence	2026	2026	98.00%	0	97.00%	KY980168.1 Bicosoeca
10	10	Caecitellus paraparvulus isolate BH65.57 small subunit ribosomal RNA gene, partial sequence	2025	2025	98.00%	0	97.00%	KY980355.1 Bicosoeca
11	10	Caecitellus paraparvulus isolate BH56.230 small subunit ribosomal RNA gene, partial sequence	2025	2025	98.00%	0	97.00%	KY980331.1 Bicosoeca
12	10	Caecitellus paraparvulus isolate BH56.221 small subunit ribosomal RNA gene, partial sequence	2025	2025	99.00%	0	97.00%	KY980325.1 Bicosoeca
13	10	Caecitellus paraparvulus isolate BH56.212 small subunit ribosomal RNA gene, partial sequence	2025	2025	98.00%	0	97.00%	KY980321.1 Bicosoeca
14	10	Caecitellus paraparvulus isolate BH56.205 small subunit ribosomal RNA gene, partial sequence	2025	2025	98.00%	0	97.00%	KY980317.1 Bicosoeca
15	10	Caecitellus paraparvulus isolate BH46.77 small subunit ribosomal RNA gene, partial sequence	2025	2025	98.00%	0	97.00%	KY980201.1 Bicosoeca
16	10	Caecitellus parvulus 18S ribosomal RNA gene, partial sequence	2025	2025	98.00%	0	97.00%	AY520446.1 Bicosoeca
17	17	Caecitellus paraparvulus isolate BH56.127 small subunit ribosomal RNA gene, partial sequence	2023	2023	99.00%	0	97.00%	KY980280.1 Bicosoeca
18	18	Caecitellus paraparvulus isolate BH56.169 small subunit ribosomal RNA gene, partial sequence	2021	2021	98.00%	0	97.00%	KY980298.1 Bicosoeca
19	18	Caecitellus paraparvulus isolate BH56.143 small subunit ribosomal RNA gene, partial sequence	2021	2021	98.00%	0	97.00%	KY980284.1 Bicosoeca
20	18	Caecitellus paraparvulus isolate BH56.92 small subunit ribosomal RNA gene, partial sequence	2021	2021	98.00%	0	97.00%	KY980269.1 Bicosoeca
21	21	Caecitellus paraparvulus isolate BH65.95 small subunit ribosomal RNA gene, partial sequence	2019	2019	99.00%	0	97.00%	KY980373.1 Bicosoeca
22	21	Caecitellus paraparvulus isolate BH56.108 small subunit ribosomal RNA gene, partial sequence	2019	2019	98.00%	0	97.00%	KY980271.1 Bicosoeca
23	21	Caecitellus paraparvulus isolate BH56.74 small subunit ribosomal RNA gene, partial sequence	2019	2019	98.00%	0	97.00%	KY980264.1 Bicosoeca
24	21	Caecitellus paraparvulus isolate BH56.5 small subunit ribosomal RNA gene, partial sequence	2019	2019	98.00%	0	97.00%	KY980250.1 Bicosoeca
25	25	Caecitellus paraparvulus isolate BH65.103 small subunit ribosomal RNA gene, partial sequence	2015	2015	98.00%	0	97.00%	KY980378.1 Bicosoeca
26	25	Caecitellus paraparvulus isolate BH46.157 small subunit ribosomal RNA gene, partial sequence	2015	2015	98.00%	0	97.00%	KY980246.1 Bicosoeca
27	25	Caecitellus paraparvulus isolate BH46.51 small subunit ribosomal RNA gene, partial sequence	2015	2015	98.00%	0	97.00%	KY980189.1 Bicosoeca
28	25	Caecitellus parvulus 18S ribosomal RNA gene, partial sequence	2015	2015	98.00%	0	97.00%	AY642126.1 Bicosoeca
29	29	Caecitellus paraparvulus isolate BH46.119 small subunit ribosomal RNA gene, partial sequence	2012	2012	98.00%	0	97.00%	KY980226.1 Bicosoeca
30	30	Caecitellus parvulus strain NBH4 18S ribosomal RNA gene, partial sequence	2004	2004	98.00%	0	97.00%	AF174368.2 Bicosoeca

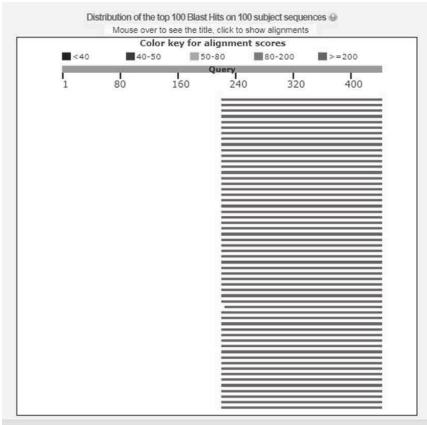


[Figure 24]

H9-09-28S.D2R2

Search condition: global search excluding environmental sequences

Sequ ence num ber	Num ber by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	Phylum	Subphylum	Class	Subclass	Order	
1	1	Pseudo-nitzschia multistriata strain HAB-132 28S ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX290894.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
2	1	Pseudo-nitzschia arenysensis strain 221b 28S ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX290867.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
3	1	Pseudo-nitzschia arenysensis strain 286b 28S ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX290865.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
4	1	Pseudo-nitzschia arenysensis strain 217b 28S ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX290864.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
5	1	Pseudo-nitzschia arenysensis strain 423b 28S ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX290863.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
6	1	Nitzschia navis-varingica voucher NLN23 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353691.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
7	1	Nitzschia navis-varingica voucher NLN21 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353690.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
8	1	Nitzschia navis-varingica voucher NLN08 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353688.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
9	1	Nitzschia navis-varingica voucher NLN05 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353687.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
10	1	Nitzschia navis-varingica voucher NLN02 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353686.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
11	1	Nitzschia navis-varingica voucher NLN01 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353685.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
12	1	Nitzschia navis-varingica voucher NTB23 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353684.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
13	1	Nitzschia navis-varingica voucher NTB02 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KX353683.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
14	1	Pseudo-nitzschia multistriata voucher Pnm07 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KR021344.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
15	1	Pseudo-nitzschia arenysensis strain 2b 28S large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KT189137.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
16	1	Pseudo-nitzschia multistriata isolate CAWD111 28S large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	JQ776549.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
17	1	Pseudo-nitzschia micropora strain PS90 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KC017445.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
18	1	Pseudo-nitzschia multistriata strain PH25C large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KC017460.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
19	1	Pseudo-nitzschia multistriata strain PH25D large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KC017459.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
20	1	Pseudo-nitzschia arenysensis strain CHB large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	KC017456.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
21	1	Pseudo-nitzschia multistriata isolate CM2 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	FJ150735.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
22	1	Pseudo-nitzschia subcurvata voucher CCMPI698 28S ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	HQ396845.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
23	1	Pseudo-nitzschia multistriata isolate CM3 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	EF642978.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
24	1	Pseudo-nitzschia multistriata isolate CM1 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	EF642977.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
25	1	Pseudo-nitzschia delicatissima strain Ra3 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	EF566013.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
26	1	Pseudo-nitzschia arenysensis strain AL-24 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	DQ813811.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
27	1	Pseudo-nitzschia multistriata isolate SZN-B27 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	AF416753.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
28	1	Pseudo-nitzschia delicatissima isolate SZN-B18 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	AF416748.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
29	1	Pseudo-nitzschia delicatissima isolate 27-02 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	AY519353.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
30	1	Pseudo-nitzschia delicatissima isolate 18-02 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	3.00E-86	92.00%	AY519349.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
31	1	Pseudo-nitzschia delicatissima isolate 18-02 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	4.00E-86	92.34%	AY519349.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
32	1	Nitzschia navis-varingica gene for 28S rRNA, partial sequence, strain:BLEC 03-17-2	329	329	50.00%	4.00E-86	92.31%	AB218886.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
33	1	Nitzschia navis-varingica gene for 28S rRNA, partial sequence, strain:BCEA 03-4-2	329	329	50.00%	4.00E-86	92.31%	AB218885.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
34	1	Pseudo-nitzschia arenysensis strain 14V 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	329	329	50.00%	4.00E-86	92.34%	AY764136.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
35	1	Nitzschia navis-varingica strain VHL987 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	4.00E-86	92.31%	AF417674.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
36	1	Nitzschia pellucida strain 99NG1-16 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	4.00E-86	92.31%	AF417672.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
37	1	Pseudo-nitzschia multistriata strain KoreaA large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	4.00E-86	92.31%	AF417654.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order
38	1	Pseudo-nitzschia micropora strain VPB-B3 large subunit ribosomal RNA gene, partial sequence	329	329	50.00%	4.00E-86	92.34%	AF417649.1	Bacillariophyta	Bacillariophytina	Bacillariophyceae	Bacillariophycidae	Bacillariales	Kusarkeiso order



[Figure 25]

H9-09-18S

Search condition: Limit to sequences from type material

Sequ ence numb er	Numb er by Max score	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	1	Pedospumella encystans voucher B 40 0040671 18S ribosomal RNA gene, partial sequence	1170	1427	93.00%	0	89.00%	AY651083.1	Golden algae
2	2	Spumella vulgaris isolate 199hm 18S ribosomal RNA gene, partial sequence	1120	1370	92.00%	0	89.00%	DQ388552.1	Golden algae
3	3	Streptofilum capillatum strain SAG 2559 small subunit ribosomal RNA gene, partial sequence	1114	1346	93.00%	0	88.00%	MG652626.1	Charophytes
4	4	Fistulifera solaris gene for 18S ribosomal RNA, partial sequence	1112	1350	93.00%	0	88.00%	AB769957.1	Bacillariophyta
5	4	Eustigmatois vischeri isolate SAG 860-1 18S ribosomal RNA gene, complete sequence	1112	1365	93.00%	0	88.00%	JX274590.1	Nannochloropsis
6	4	Eustigmatois polyphem strain SAG 38.84 18S ribosomal RNA gene, complete sequence	1112	1365	93.00%	0	88.00%	JX188077.1	Nannochloropsis
7	4	Vischeria helvetica strain SAG 876-1 18S ribosomal RNA gene, complete sequence	1112	1359	93.00%	0	88.00%	JX188080.1	
8	8	Pseudotetraedriella kamillae strain SAG 2056 18S ribosomal RNA gene, partial sequence	1109	1359	93.00%	0	88.00%	EF044311.1	
9	8	Monodus unipapilla partial 18S rRNA gene, strain SAG 8.83	1109	1359	93.00%	0	88.00%	AM490827.1	
10	10	Heterococcus fuornensis partial 18S rRNA gene, strain SAG 835-5	1101	1352	92.00%	0	88.00%	AM490821.1	
11	10	Heterococcus caespitosus partial 18S rRNA gene, strain SAG 835-2a	1101	1352	92.00%	0	88.00%	AM490820.1	
12	10	Nannochloropsis limnetica strain SAG 18.99 culture-collection SAG:18.99 18S ribosomal RNA gene, partial sequence	1101	1346	95.00%	0	87.00%	AF251496.1	
13	13	Olpidopsis heterosiphoniae isolate KNU-M-omc4 18S ribosomal RNA gene, partial sequence	1098	1342	91.00%	0	88.00%	MF838767.1	
14	13	Saitoella complicata strain NRRL Y-17804 18S ribosomal RNA gene, partial sequence	1098	1309	93.00%	0	88.00%	JQ698935.1	
15	13	Saitoella complicata IAM 12963 18S rRNA gene, partial sequence; from TYPE material	1098	1309	93.00%	0	88.00%	NG_013154.1	
16	13	Poteriospumella lacustris voucher B 40 0040673 18S ribosomal RNA gene, partial sequence	1098	1329	92.00%	0	88.00%	AY651074.1	
17	13	Chlorellidium tetrabotrys strain SAG811-1 18S ribosomal RNA gene, partial sequence	1096	1357	92.00%	0	88.00%	FJ030892.1	
18	18	Saitoella complicata gene for 18S rRNA	1096	1313	93.00%	0	88.00%	D12530.1	
19	19	Ochromonas danica strain SAG933.7 18S ribosomal RNA gene, partial sequence	1088	1315	92.00%	0	88.00%	JQ281514.1	
20	20	Hyaloraphidium curvatum SAG 235-1 18S rRNA gene, partial sequence; from reference material	1077	1304	93.00%	0	88.00%	NG_017172.1	
21	21	Micromonas commoda isolate RCC299 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	1074	1311	92.00%	0	88.00%	KU612123.1	
22	21	Micromonas sp. RCC299 18S ribosomal RNA gene, partial sequence	1074	1311	92.00%	0	88.00%	HM191693.1	
23	21	Micromonas sp. RCC299 chromosome 8, complete sequence	1074	3934	92.00%	0	88.00%	CP001575.1	
24	21	Sphaerosorus composita partial 18S rRNA gene, strain SAG 53.91	1074	1329	92.00%	0	88.00%	AJ579333.1	
25	25	Taphrina populina CBS 337.55 18S rRNA gene, partial sequence; from TYPE material	1070	1261	92.00%	0	87.00%	NG_062683.1	
26	25	Taphrina populina gene for 18S rRNA	1070	1261	92.00%	0	87.00%	D14165.1	
27	27	Endogone corticioides gene for 18S ribosomal RNA, partial sequence, specimen_voucher: A-14002	1068	1270	85.00%	0	88.00%	LC107355.1	
28	27	Micromonas commoda 18S ribosomal RNA gene, partial sequence	1068	1300	92.00%	0	87.00%	KU244632.1	
29	27	Klebsormidium elegans 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2 and 26S rRNA gene (partial), strain SAG 7.96	1068	1287	93.00%	0	87.00%	AM490840.1	
30	27	Klebsormidium dissectum strain SAG 2155 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 26S ribosomal RNA gene, partial sequence	1068	1291	93.00%	0	87.00%	EF372518.1	

[Figure 26]

H9-09-28S.D2C2

Search condition: Limit to sequences from type material

	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	<i>Suhamyces guaymorum</i> culture CBS:9823 large subunit ribosomal RNA gene, partial sequence	217	217	31.00%	2.00E-53	91%	KY106486.1	Fungus
2	<i>Suhamyces bokatorum</i> culture CBS:9824 large subunit ribosomal RNA gene, partial sequence	217	217	31.00%	2.00E-53	91%	KY106349.1	Fungus
3	<i>Suhamyces bokatorum</i> ATCC MYA-4308 28S rRNA, partial sequence; from TYPE material	217	217	31.00%	2.00E-53	91%	NG 042485.1	Fungus
4	<i>Suhamyces guaymorum</i> CBS 9823 28S rRNA, partial sequence; from TYPE material	217	217	31.00%	2.00E-53	91%	NG 054787.1	Fungus
5	<i>Candida bokatorum</i> strain BG02-7-16-039A-2-1 26S ribosomal RNA gene, partial sequence	217	217	31.00%	2.00E-53	91%	AY309798.1	Fungus
6	<i>Blastobotrys mokenaii</i> culture CBS:8435 large subunit ribosomal RNA gene, partial sequence	215	215	30.00%	6.00E-53	91%	KY106207.1	Fungus
7	<i>Blastobotrys malaysiensis</i> culture CBS:10336 large subunit ribosomal RNA gene, partial sequence	215	215	30.00%	6.00E-53	91%	KY106206.1	Fungus
8	<i>Blastobotrys illinoisensis</i> culture CBS:10339 large subunit ribosomal RNA gene, partial sequence	215	215	30.00%	6.00E-53	91%	KY106204.1	Fungus
9	<i>Salispina spinosa</i> voucher CBS 591.85 28S ribosomal RNA gene, partial sequence	215	215	31.00%	6.00E-53	91%	KT920434.1	
10	<i>Blastobotrys illinoisensis</i> NRRL YB-1343 28S rRNA, partial sequence; from TYPE material	215	215	30.00%	6.00E-53	91%	NG 042438.1	
11	<i>Blastobotrys malaysiensis</i> NRRL Y-6417 28S rRNA, partial sequence; from TYPE material	215	215	30.00%	6.00E-53	91%	NG 042437.1	
12	<i>Blastobotrys mokenaii</i> NRRL Y-27120 28S rRNA, partial sequence; from TYPE material	215	215	30.00%	6.00E-53	91%	NG 055335.1	
13	<i>Blastobotrys mokenaii</i> strain CBS 8435 large subunit ribosomal RNA gene, partial sequence	215	215	30.00%	6.00E-53	91%	AY559042.1	
14	<i>Yamadazyma endophytica</i> strain DMKU-CE23 large subunit ribosomal RNA gene, partial sequence	213	213	32.00%	2.00E-52	90%	KT307981.1	
15	[<i>Candida</i>] <i>viroseae</i> CBS 10829 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 060833.1	
16	[<i>Candida</i>] <i>oceanii</i> CBS 11857 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 060819.1	
17	[<i>Candida</i>] <i>kanchanaburiensis</i> CBS 11266 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 060811.1	
18	<i>Yamadazyma riverae</i> UFMG CM-Y444 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 059986.1	
19	<i>Yamadazyma ubonensis</i> CBS 12859 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 058443.1	
20	<i>Yamadazyma tumulicola</i> CBS 10917 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 058442.1	
21	<i>Yamadazyma siamensis</i> CBS 12573 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 058440.1	
22	<i>Yamadazyma mexicana</i> CBS 7066 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	7.00E-52	91%	NG 058439.1	
23	<i>Yamadazyma ubonensis</i> culture CBS:12859 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110171.1	
24	<i>Yamadazyma tumulicola</i> culture CBS:10917 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110170.1	
25	<i>Yamadazyma siamensis</i> culture CBS:12573 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110167.1	
26	<i>Yamadazyma scolyti</i> culture CBS:4802 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110163.1	
27	<i>Yamadazyma phillyphila</i> culture CBS:12572 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110162.1	
28	<i>Yamadazyma phillogaea</i> culture CBS:6696 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110161.1	
29	<i>Yamadazyma olivae</i> culture CBS:11171 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110160.1	
30	<i>Yamadazyma mexicana</i> culture CBS:7066 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	7.00E-52	91%	KY110154.1	
31	<i>Priceomyces medius</i> culture CBS:5521 large subunit ribosomal RNA gene, partial sequence	211	21100%	31.00%	9.00E-52	90.24%	KY108942.1	
32	<i>Suhamyces yuchorum</i> culture CBS:9829 large subunit ribosomal RNA gene, partial sequence	21100%	2.11E+02	31.00%	9.00E-52	90.62%	KY106893.1	
33	<i>Suhamyces wounanorum</i> culture CBS:9828 large subunit ribosomal RNA gene, partial sequence	21100%	2.11E+02	31.00%	9.00E-52	90.62%	KY106890.1	
34	[<i>Candida</i>] <i>viroseae</i> CBS:10829 large subunit ribosomal RNA gene, partial sequence	21100%	2.11E+02	31.00%	9.00E-52	90.62%	KY106887.1	
35	[<i>Candida</i>] <i>trypodendri</i> culture CBS:8505 large subunit ribosomal RNA gene, partial sequence	21100%	2.11E+02	31.00%	9.00E-52	90.62%	KY106852.1	
36	<i>Suhamyces terraborum</i> culture CBS:9826 large subunit ribosomal RNA gene, partial sequence	21100%	2.11E+02	31.00%	9.00E-52	90.62%	KY106802.1	
37	[<i>Candida</i>] <i>tenuis</i> culture CBS:615 large subunit ribosomal RNA gene, partial sequence	211	21100%	31.00%	9.00E-52	90.62%	KY106798.1	
38	[<i>Candida</i>] <i>taylorii</i> culture CBS:8508 large subunit ribosomal RNA gene, partial sequence	211	21100%	31.00%	9.00E-52	90.62%	KY106796.1	
39	[<i>Candida</i>] <i>tammaniensis</i> culture CBS:8504 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	91%	KY106792.1	
40	[<i>Candida</i>] <i>tallmaniae</i> culture CBS:8575 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	91%	KY106791.1	
41	[<i>Candida</i>] <i>spencermartinsiae</i> culture CBS:10894 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	91%	KY106777.1	
42	[<i>Candida</i>] <i>pseudoasperi</i> culture CBS:11170 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	91%	KY106699.1	
43	[<i>Candida</i>] <i>oceanii</i> culture CBS:11857 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	91%	KY106609.1	
44	[<i>Candida</i>] <i>naeodendra</i> culture CBS:6032 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	91%	KY106592.1	
45	[<i>Candida</i>] <i>micbaeli</i> culture CBS:9878 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106582.1	
46	[<i>Candida</i>] <i>lessepseii</i> culture CBS:9941 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106548.1	
47	<i>Suhamyces kunorum</i> culture CBS:9825 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106542.1	
48	[<i>Candida</i>] <i>kanchanaburiensis</i> culture CBS:11266 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106534.1	
49	[<i>Candida</i>] <i>insectorum</i> culture CBS:6213 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106517.1	
50	<i>Candida heliconiae</i> culture CBS:10000 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106498.1	
51	[<i>Candida</i>] <i>gorgasii</i> culture CBS:9880 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106481.1	
52	[<i>Candida</i>] <i>friedrichii</i> culture CBS:4114 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106452.1	
53	[<i>Candida</i>] <i>endomychidarum</i> culture CBS:9881 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106430.1	
54	<i>Suhamyces emberorum</i> culture CBS:9827 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106429.1	
55	[<i>Candida</i>] <i>diospyri</i> culture CBS:9769 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106418.1	
56	[<i>Candida</i>] <i>diddensiae</i> culture CBS:2214 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106414.1	
57	[<i>Candida</i>] <i>dendronema</i> culture CBS:6270 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106412.1	
58	<i>Suhamyces chickasaworum</i> culture CBS:9830 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106393.1	
59	[<i>Candida</i>] <i>buinensis</i> culture CBS:6796 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106375.1	
60	[<i>Candida</i>] <i>blattariae</i> culture CBS:9876 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106328.1	
61	[<i>Candida</i>] <i>atlantica</i> culture CBS:5263 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106311.1	
62	[<i>Candida</i>] <i>amphicis</i> culture CBS:9877 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106290.1	
63	[<i>Candida</i>] <i>asseri</i> culture CBS:1913 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KY106268.1	
64	<i>Yamadazyma</i> sp. CLIB 1964 partial 26S rRNA gene, strain CLIB 1964, isolate MARY101	211	211	31.00%	9.00E-52	90.62%	LT547716.1	
65	<i>Candida</i> <i>oceanii</i> genome, DNA sequence contigs CBS rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, strain DSM 23777, isolate M039	211	211	31.00%	9.00E-52	90.62%	LN870268.1	
66	<i>Yamadazyma riverae</i> voucher UFMG-CM-Y444 26S ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KP900043.1	
67	<i>Yamadazyma blattariae</i> genes for 18S rRNA, ITS1, 5.8S rRNA, ITS2, 28S rRNA, partial and complete sequences, strain K5817-6-9	211	211	31.00%	9.00E-52	90.62%	LC060995.1	
68	<i>Yamadazyma</i> sp. NYNU 14668 26S ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	KM272248.1	
69	<i>Candida heliconiae</i> NRRL Y-27813 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 055224.1	
70	<i>Yamadazyma phillyphila</i> DMKU RK548 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054772.1	
71	<i>Yamadazyma siamensis</i> gene for 26S rRNA, partial sequence	211	211	31.00%	9.00E-52	90.62%	AB734046.1	
72	<i>Yamadazyma scolyti</i> NRRL Y-5512 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042642.1	
73	<i>Yamadazyma phillogaea</i> NRRL Y-7813 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042641.1	
74	<i>Priceomyces medius</i> strain CBS 5521 (GenBank accession: F01111) 28S rRNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	JQ247717.1	
75	<i>Candida wounanorum</i> strain BG02-7-18-027A-1-1 28S ribosomal RNA (LSU) gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	JQ025406.1	
76	<i>Candida yuchorum</i> strain BG01-8-26-001A-1-1 28S ribosomal RNA (LSU) gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	JQ025403.1	
77	<i>Candida terraborum</i> strain BG02-7-15-019A-2-1 28S ribosomal RNA (LSU) gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	JQ025402.1	
78	<i>Candida chickasaworum</i> strain BG99-11-14-10-1-1 28S ribosomal RNA (LSU) gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	JQ025398.1	
79	[<i>Candida</i>] <i>pseudoasperi</i> CBS 11170 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 055698.1	
80	[<i>Candida</i>] <i>tallmaniae</i> CBS 8575 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054823.1	
81	[<i>Candida</i>] <i>friedrichii</i> CBS 4114 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054822.1	
82	<i>Yamadazyma tenuis</i> ATCC 10573 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054818.1	
83	<i>Yamadazyma olivae</i> ATCC MYA-4568 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042526.1	
84	<i>Candida olivae</i> strain FMCC Y-1 26S ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	FJ715430.1	
85	[<i>Candida</i>] <i>spencermartinsiae</i> CBS 10894 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054807.1	
86	[<i>Candida</i>] <i>taylorii</i> CBS 8508 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054808.1	
87	[<i>Candida</i>] <i>lessepseii</i> ATCC MYA-4338 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042497.1	
88	[<i>Candida</i>] <i>endomychidarum</i> ATCC MYA-4335 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042496.1	
89	[<i>Candida</i>] <i>gorgasii</i> ATCC MYA-4334 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042495.1	
90	[<i>Candida</i>] <i>micbaeli</i> ATCC MYA-4332 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042494.1	
91	[<i>Candida</i>] <i>amphicis</i> ATCC MYA-4331 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042493.1	
92	[<i>Candida</i>] <i>blattariae</i> ATCC MYA-4330 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042492.1	
93	<i>Suhamyces wounanorum</i> ATCC MYA-4312 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 042486.1	
94	<i>Suhamyces terraborum</i> ATCC MYA-4310 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054809.1	
95	<i>Yamadazyma tumulicola</i> genes for 18S rRNA, ITS1, 5.8S rRNA, ITS2, 28S rRNA, partial and complete sequences, strain: T6517-9-5	211	211	31.00%	9.00E-52	90.62%	AB365463.1	
96	[<i>Candida</i>] <i>andamanensis</i> CBS 10859 28S rRNA gene, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 055688.1	
97	<i>Candida heliconiae</i> strain UNESP 91C1 large subunit ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	AY566406.1	
98	[<i>Candida</i>] <i>diospyri</i> CBS 9769 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054790.1	
99	<i>Candida lessepseii</i> 26S ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	AY640214.1	
100	<i>Candida blattariae</i> 26S ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%	AY640213.1	
101	[<i>Candida</i>] <i>tammaniensis</i> 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054774.1	
102	[<i>Candida</i>] <i>trypodendri</i> 28S rRNA, partial sequence; from TYPE material	211	211	31.00%	9.00E-52	90.62%	NG 054773.1	
103	<i>Candida endomychidarum</i> strain CBS 9881 26S ribosomal RNA gene, partial sequence	211	211	31.00%	9.00E-52	90.62%		

[Figure 27]

H9-09-28S_D2R2

Search condition: Limit to sequences from type material

	Description	Max score	Total score	Query cover	E value	Ident	Accession	
1	<i>Chlorellidium tetrabotrys</i> strain SAG811-1 28S ribosomal RNA gene, partial sequence	196	196	50.00%	2.00E-47	82.00%	FJ030881.1	Yellow-green algae
2	<i>Ceriporiopsis</i> sp. CLZ-2014 voucher Cui 10222 28S large subunit ribosomal RNA gene, partial sequence	185	185	50.00%	4.00E-44	81.00%	KF845949.1	Fungus
3	<i>Spizellomyces acuminatus</i> 28S ribosomal RNA (LSU) gene, partial sequence	183	183	50.00%	1.00E-43	81.00%	JN941010.1	Fungus
4	<i>Phlyctochytrium africanum</i> voucher CBS 454.65 28S ribosomal RNA gene, partial sequence	183	183	50.00%	1.00E-43	81.00%	FJ827693.1	Fungus
5	<i>Fimicolochytrium jonesii</i> JEL 569 28S rRNA gene, partial sequence; from TYPE material	182	182	50.00%	5.00E-43	81.00%	NG_060391.1	Fungus
6	<i>Geranomycetes variabilis</i> voucher MP03 28S large subunit ribosomal RNA gene, partial sequence	182	182	50.00%	5.00E-43	81.00%	HQ901692.1	Fungus
7	<i>Fimicolochytrium jonesii</i> voucher JEL569 28S large subunit ribosomal RNA gene, partial sequence	182	182	50.00%	5.00E-43	81.00%	HQ901681.1	Fungus
8	<i>Thoreauomyces humboldtii</i> JEL 95 28S rRNA gene, partial sequence; from TYPE material	180	180	50.00%	2.00E-42	81.00%	NG_059938.1	
9	<i>Thoreauomyces humboldtii</i> voucher JEL95 28S large subunit ribosomal RNA gene, partial sequence	180	180	50.00%	2.00E-42	81.00%	HQ901662.1	
10	<i>Sonoraphlyctis ranzonii</i> DAOM BR 060 28S rRNA, partial sequence; from TYPE material	180	180	50.00%	2.00E-42	81.00%	NG_042454.1	
11	<i>Basidioascus undulatus</i> strain CBS 133763 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	MH877552.1	
12	<i>Piskurozyma taiwanensis</i> CBS 9813 28S rRNA gene, partial sequence; from TYPE material	178	178	50.00%	6.00E-42	80.00%	NG_058375.1	
13	<i>Goffeauzyma aciditolerans</i> CBS 10872 28S rRNA gene, partial sequence; from TYPE material	178	178	50.00%	6.00E-42	80.00%	NG_058295.1	
14	<i>Solicoccozyma aerea</i> culture CBS:155 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY109666.1	
15	<i>Piskurozyma taiwanensis</i> culture CBS:9813 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY108934.1	
16	<i>Piskurozyma cylindrica</i> culture CBS:8680 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY108932.1	
17	<i>Naganishia globosa</i> culture CBS:5106 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY108616.1	
18	<i>Naganishia friedmannii</i> culture CBS:7160 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY108613.1	
19	<i>Goffeauzyma aciditolerans</i> culture CBS:10872 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY107763.1	
20	<i>Filobasidium wieringae</i> culture CBS:1937 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY107733.1	
21	<i>Filobasidium magnum</i> culture CBS:140 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY107722.1	
22	<i>Filobasidium globisporum</i> culture CBS:7642 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY107713.1	
23	<i>Filobasidium floriforme</i> culture CBS:6241 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY107703.1	
24	[<i>Cryptococcus</i>] <i>consortionis</i> culture CBS:7159 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY106981.1	
25	[<i>Cryptococcus</i>] <i>albidus</i> var. <i>ovalis</i> culture CBS:5810 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY106965.1	
26	[<i>Cryptococcus</i>] <i>albidus</i> var. <i>kuezingii</i> culture CBS:1926 large subunit ribosomal RNA gene, partial sequence	178	178	50.00%	6.00E-42	80.00%	KY106960.1	
27	<i>Geminibasidium hirsutum</i> DAOM 241969 28S rRNA, partial sequence; from TYPE material	178	178	50.00%	6.00E-42	80.00%	NG_042695.1	
28	<i>Geminibasidium donsium</i> DAOM 241966 28S rRNA, partial sequence; from TYPE material	178	178	50.00%	6.00E-42	80.00%	NG_042694.1	
29	<i>Basidioascus magus</i> DAOM 241948 28S rRNA, partial sequence; from TYPE material	178	178	50.00%	6.00E-42	80.00%	NG_042693.1	
30	<i>Basidioascus undulatus</i> DAOM 241956 28S rRNA, partial sequence; from TYPE material	178	178	50.00%	6.00E-42	80.00%	NG_042692.1	