

OTU\_149;size=3116;.csv

Gomphonema parvulum  
Gomphonemataceae

82.56

Gomphonema parvulum strain TCC466 cytochrome oxida	JQ354708	82.56	89.86	1.73085e-47		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC465 cytochrome oxida	JQ354707	82.56	89.86	1.73085e-47		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC464 cytochrome oxida	JQ354706	82.56	89.86	1.73085e-47		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC463 cytochrome oxida	JQ354705	82.56	89.86	1.73085e-47		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC433 cytochrome oxida	JQ354701	82.56	89.86	1.73085e-47		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC432 cytochrome oxida	JQ354700	82.56	89.86	1.73085e-47		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC430 cytochrome oxida	JQ354698	82.56	89.86	1.73085e-47		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC610 cytochrome oxida	JQ354721	82.05	89.86	7.35978e-46		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC592 cytochrome oxida	JQ354719	82.05	89.86	7.35978e-46		Gomphonemataceae	Gomphonema parvulum
Entomoneis cf. alata voucher CCMP1522 cytochrome o	GQ844260	80	99.08	7.35978e-46		Entomoneidaceae	Entomoneis cf. alata
Halophytophthora epistomium voucher CBS59085 cytoc	HQ708285	79.26	100	3.12946e-44	Pythiales	Pythiaceae	Halophytophthora epistomium
Melosira nummuloides voucher MELNUMB cytochrome ox	GQ844266	79.07	99.08	3.81246e-43	Melosirales	Melosiraceae	Melosira nummuloides
Sellaphora seminulum clone TCC461 cytochrome oxida	KC736653	80.61	90.32	1.33068e-42	Naviculales	Sellaphoraceae	Sellaphora seminulum
Pinnularia sp. 10 CS-2011 cytochrome c oxidase sub	JN418692	78.7	99.54	1.33068e-42	Naviculales	Pinnulariaceae	Pinnularia sp. 10 CS-2011
Gomphonema parvulum strain TCC734 cytochrome oxida	JQ354725	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC612 cytochrome oxida	JQ354722	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC593 cytochrome oxida	JQ354720	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC494 cytochrome oxida	JQ354716	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC492 cytochrome oxida	JQ354715	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC482 cytochrome oxida	JQ354714	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC428 cytochrome oxida	JQ354696	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC436 cytochrome oxida	JQ354703	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC434 cytochrome oxida	JQ354702	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC426 cytochrome oxida	JQ354695	80.51	89.86	4.64453e-42		Gomphonemataceae	Gomphonema parvulum
Berkeleya fennica mitochondrion, complete genome	KM886611	81.87	83.87	1.6211e-41	Naviculales	Berkeleyaceae	Berkeleya fennica
Sellaphora pupula clone LE D35 cytochrome oxidase	KC911838	80.41	89.4	1.6211e-41	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula clone LE J9 cytochrome oxidase s	KC911837	80.41	89.4	1.6211e-41	Naviculales	Sellaphoraceae	Sellaphora pupula
Gomphonema clevei strain TCC507 cytochrome oxidase	JQ354718	78.77	97.7	1.6211e-41		Gomphonemataceae	Gomphonema clevei
Gomphonema clevei strain TCC469 cytochrome oxidase	JQ354710	78.77	97.7	1.6211e-41		Gomphonemataceae	Gomphonema clevei
Pinnularia viridiformis strain (Enc2)a cytochrome	JN418679	78.34	100	1.6211e-41	Naviculales	Pinnulariaceae	Pinnularia viridiformis
Sellaphora pupula voucher RBGE_28_28 cytochrome ox	HQ317105	80.41	89.4	1.6211e-41	Naviculales	Sellaphoraceae	Sellaphora pupula
Pinnularia neomajor strain (Tor1)a cytochrome c ox	JN418677	78.24	99.54	5.65819e-41	Naviculales	Pinnulariaceae	Pinnularia neomajor
Nitzschia sp. BOLD:AAX5147 cytochrome oxidase subu	HQ317079	78.24	99.54	5.65819e-41	Bacillariales	Bacillariaceae	Nitzschia sp. BOLD:AAX5147
Amphiprora alata strain J cytochrome oxidase subun	KJ671723	77.88	100	1.9749e-40	Naviculales	Amphipleuraceae	Amphiprora alata
Pinnularia sp. 3 CS-2011 cytochrome c oxidase subu	JN418681	80.21	88.48	1.9749e-40	Naviculales	Pinnulariaceae	Pinnularia sp. 3 CS-2011
Pythium violae voucher CBS17886 cytochrome oxidase	HQ708998	77.88	100	1.9749e-40	Pythiales	Pythiaceae	Pythium violae
Pythium abapressorium voucher CBS110198 cytochrom	HQ708455	77.88	100	1.9749e-40	Pythiales	Pythiaceae	Pythium abapressorium
Sellaphora laevisissima voucher E3651 clone THR4 cyt	EF164943	77.88	100	1.9749e-40	Naviculales	Sellaphoraceae	Sellaphora laevisissima
Mayamaea atomus var. permitis strain (Wes2)f cytoc	JN418700	77.78	99.54	6.89309e-40	Naviculales	Naviculaceae	Mayamaea permitis
Pinnularia parvulissima strain Pin 877 TM cytochro	JN418693	79.59	90.32	6.89309e-40	Naviculales	Pinnulariaceae	Pinnularia parvulissima
Pinnularia sp. 9 CS-2011 cytochrome c oxidase subu	JN418688	79.59	90.32	6.89309e-40	Naviculales	Pinnulariaceae	Pinnularia sp. 9 CS-2011
Pythium terrestris voucher CBS112352 cytochrome ox	HQ708898	77.78	99.54	6.89309e-40	Pythiales	Pythiaceae	Pythium terrestris
Pythium sp. CAL-2011c voucher BR879 cytochrome oxi	HQ708858	77.78	99.54	6.89309e-40	Pythiales	Pythiaceae	Pythium sp. CAL-2011c
Pythium acanthicum voucher Lev1618 cytochrome oxid	HQ708457	77.78	99.54	6.89309e-40	Pythiales	Pythiaceae	Pythium acanthicum
Melosira nummuloides voucher CCMP484 cytochrome ox	GQ844267	78.47	96.31	6.89309e-40	Melosirales	Melosiraceae	Melosira nummuloides
Pinnularia sp. 5 CS-2011 cytochrome c oxidase subu	JN418683	77.73	100	2.40592e-39	Naviculales	Pinnulariaceae	Pinnularia sp. 5 CS-2011
Navicula sp. CCMP2562 cytochrome oxidase subunit 1	HQ317077	77.93	98.16	2.40592e-39	Naviculales	Naviculaceae	Navicula sp. BOLD:AAO6951
Sellaphora pupula voucher E3622 clone AFR1 cytochr	EF164940	80.87	84.33	2.40592e-39	Naviculales	Sellaphoraceae	Sellaphora pupula
Lagenidium giganteum f. caninum isolate C99-VK cyt	KT257384	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Pythium sp. balticum isolate C12-14 cytochrome oxi	KT692820	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium sp. balticum
Pythium ultimum var. ultimum strain ATCC 58811 cyt	KJ639200	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum var. ultimum strain Lev2075 cytoch	KJ639198	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum var. ultimum strain CBS 296.37 cyt	KJ639194	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum var. ultimum strain CBS 291.31 cyt	KJ639193	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum var. ultimum strain DAOM BR844 cyt	KJ639188	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum var. ultimum strain DAOM BR840 cyt	KJ639186	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum var. ultimum strain DAOM BR816 cyt	KJ639183	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum var. ultimum strain DAOM BR144 cyt	KJ639172	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium sp. CLE-2015a cytochrome c oxidase subunit	KT247387	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium sp. CLE-2015a
Lagenidium giganteum f. caninum strain C99-AW cyto	KF923747	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum strain ATCC 52675 cytochrome	KF923742	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum
Lagenidium giganteum f. caninum strain CBS 135280	KF913713	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain CBS 134680	KF913711	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C99-VK cyto	KF913710	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C98-JK cyto	KF913706	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C10-PG15 cy	KF913702	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C05-ZF168 c	KF913699	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C04-RC46 cy	KF913697	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C04-ET106 c	KF913695	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C03-RJ13 cy	KF913693	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C03-BW10 cy	KF913690	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C02-ML103 c	KF913688	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C02-DE96 cy	KF913686	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C01-MO133 c	KF913685	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Lagenidium giganteum f. caninum strain C00-AP cyto	KF913684	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Coscinodiscus sp. 35 LG-2014 cytochrome oxidase su	KJ671729	77.42	100	8.3975e-39	Coscinodiscales	Coscinodiscaceae	Coscinodiscus sp. 35 LG-2014
Lagenidium giganteum f. caninum strain C13-AK202 c	KF923746	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum f. caninum
Pythium ultimum var. ultimum isolate OJ5-11-405-2	KF761145	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium violae voucher ADC9924 cytochrome oxidase	HQ709007	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium violae
Pythium helicandrum voucher CBS52774 cytochrome ox	HQ708591	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium helicandrum
Pythium sp. balticum voucher CBS122649 cytochrome	HQ708525	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium sp. balticum
Pythium attrantheridium voucher DAOM230386 cytochr	HQ708523	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium attrantheridium
Pythium attrantheridium voucher DAOM230388 cytochr	HQ708521	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium attrantheridium
Lagenidium giganteum voucher CBS58084 cytochrome o	HQ708210	77.42	100	8.3975e-39	Lagenidiales	Lagenidiaceae	Lagenidium giganteum
Brevilegnia gracilis voucher CBS13137 cytochrome o	HQ708200	77.42	100	8.3975e-39	Saprolegniales	Saprolegniaceae	Brevilegnia gracilis
Aphanomyces laevis voucher CBS47871 cytochrome oxi	HQ708195	77.42	100	8.3975e-39	Saprolegniales	Saprolegniaceae	Aphanomyces laevis
Achlya dubia voucher CBS10138 cytochrome oxidase s	HQ708167	77.42	100	8.3975e-39	Saprolegniales	Saprolegniaceae	Achlya dubia
Achlya americana voucher CBS10052 cytochrome oxida	HQ708157	77.42	100	8.3975e-39	Saprolegniales	Saprolegniaceae	Achlya americana
Pythium ultimum mitochondrial partial COI gene for	FR797809	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum
Pythium attrantheridium strain PPRI8636 cytochrome	GU071826	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium attrantheridium
Pythium ultimum var. ultimum strain PPRI8615 cytoc	GU071815	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum var. ultimum
Pythium ultimum culture-collection DAOM:BR114 mito	GU138662	77.42	100	8.3975e-39	Pythiales	Pythiaceae	Pythium ultimum
Lagenidium sp. PWL-2010f cytochrome c oxidase subu	KT257385	77.31	99.54	2.93102e-38	Lagenidiales	Lagenidiaceae	Lagenidium sp. PWL-2010f
Pythium aff. intermedium JEB-2016 isolate C12-184	KT692881	77.31	99.54	2.93102e-38	Pythiales	Pythiaceae	Pythium aff. intermedium JEB-2016
Pythium oligandrum strain Sil8 cytochrome oxidase	KJ944441	77.31	99.54	2.93102e-38	Pythiales	Pythiaceae	Pythium oligandrum
Pleurosigma strigosum strain X cytochrome oxidase	KJ671738	77.31	99.54	2.93102e-38	Naviculales	Pleurosigmataceae	Pleurosigma strigosum
Dimeregramma acutum voucher Van5.3 cytochrome oxid	KF768027	79.08	90.32	2.93102e-38	Triceratiales	Plagiogrammaceae	Dimeregramma acutum
Rossia sp. CH2 mitochondrial cox1 gene for cytochr	AB618070	77.31	99.54	2.93102e-38	Naviculales	Naviculaceae	Rossia sp. CH2
Pythium viniferum mitochondrial partial COI gene f	HE797904	77.31	99.54	2.93102e-38	Pythiales	Pythiaceae	Pythium viniferum
Pinnularia sp. 12 CS-2011 cytochrome c oxidase sub	JN418702	79.08	90.32	2.93102e-38	Naviculales	Pinnulariaceae	Pinnularia sp. 12 CS-2011