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Pinnularia cf. microstauron

Pinnulariaceae

Naviculales

83.08

Pinnularia cf. microstauron strain (B2)c cytochrom	JN418675	83.08	90.28	1.41292e-48	Naviculales	Pinnulariaceae	Pinnularia cf. microstauron
Pinnularia sp. 9 CS-2011 cytochrome c oxidase subu	JN418688	82.81	88.89	6.0079e-47	Naviculales	Pinnulariaceae	Pinnularia sp. 9 CS-2011
Pinnularia sp. 10 CS-2011 cytochrome c oxidase sub	JN418692	79.63	100	2.55462e-45	Naviculales	Pinnulariaceae	Pinnularia sp. 10 CS-2011
Gomphonema parvulum strain TCC466 cytochrome oxida	JQ354708	80.51	90.28	4.61887e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC465 cytochrome oxida	JQ354707	80.51	90.28	4.61887e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC464 cytochrome oxida	JQ354706	80.51	90.28	4.61887e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC463 cytochrome oxida	JQ354705	80.51	90.28	4.61887e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC433 cytochrome oxida	JQ354701	80.51	90.28	4.61887e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC432 cytochrome oxida	JQ354700	80.51	90.28	4.61887e-42		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC430 cytochrome oxida	JQ354698	80.51	90.28	4.61887e-42		Gomphonemataceae	Gomphonema parvulum
Mayamaea atomus var. permitis strain (Wes2)f cytoc	JN418700	78.24	100	5.62693e-41	Naviculales	Naviculaceae	Mayamaea permitis
Pinnularia subanglica strain Pin 650 K cytochrome	JN418698	78.24	100	5.62693e-41	Naviculales	Pinnulariaceae	Pinnularia subanglica
Pinnularia viridiformis strain Pin 870 MG cytochro	JN418691	80.1	90.74	5.62693e-41	Naviculales	Pinnulariaceae	Pinnularia viridiformis
Pinnularia viridiformis strain (Enc2)a cytochrome	JN418679	78.24	100	5.62693e-41	Naviculales	Pinnulariaceae	Pinnularia viridiformis
Gomphonema parvulum strain TCC612 cytochrome oxida	JQ354722	79.49	90.28	2.39263e-39		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC610 cytochrome oxida	JQ354721	79.49	90.28	2.39263e-39		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC593 cytochrome oxida	JQ354720	79.49	90.28	2.39263e-39		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC592 cytochrome oxida	JQ354719	79.49	90.28	2.39263e-39		Gomphonemataceae	Gomphonema parvulum
Pinnularia neomajor strain (Tor1)a cytochrome c ox	JN418677	80.32	87.04	2.39263e-39	Naviculales	Pinnulariaceae	Pinnularia neomajor
Gomphonema clevei strain TCC507 cytochrome oxidase	JQ354718	77.83	98.15	8.35111e-39		Gomphonemataceae	Gomphonema clevei
Gomphonema clevei strain TCC469 cytochrome oxidase	JQ354710	77.83	98.15	8.35111e-39		Gomphonemataceae	Gomphonema clevei
Plagiogramma sp. IAL-2014a voucher Van5.4 cytochro	KF768028	77.31	100	2.91482e-38	Triceratiales	Plagiogrammaceae	Plagiogramma sp. IAL-2014a
Pinnularia acrosphaeria clone TCC472 cytochrome ox	KC736652	77.31	100	2.91482e-38	Naviculales	Pinnulariaceae	Pinnularia acrosphaeria
Pinnularia neomajor strain Corsea 2 cytochrome c o	JN418687	77.31	100	2.91482e-38	Naviculales	Pinnulariaceae	Pinnularia neomajor
Berkeleya fennica mitochondrion, complete genome	KM886611	77.36	98.15	1.01737e-37	Naviculales	Berkeleyaceae	Berkeleya fennica
Sellaphora bacillum cytochrome oxidase subunit I (	FJ042925	77.21	99.54	1.01737e-37	Naviculales	Sellaphoraceae	Sellaphora bacillum
Sellaphora bacillum voucher E3727 cytochrome oxida	FJ042924	77.21	99.54	1.01737e-37	Naviculales	Sellaphoraceae	Sellaphora bacillum
Sellaphora bacillum voucher E3640 clone BLA4 cytoc	EF164941	77.21	99.54	1.01737e-37	Naviculales	Sellaphoraceae	Sellaphora bacillum
Sellaphora bacillum voucher E3149 clone ST-MAR1 cy	EF164930	77.21	99.54	1.01737e-37	Naviculales	Sellaphoraceae	Sellaphora bacillum
Peronospora linariae-genistifoliae isolate P0560 c	KJ654073	76.85	100	3.55098e-37	Peronosporales	Peronosporaceae	Peronospora linariae-genistifoliae
Peronosclerospora sp. YJC-2014 isolate O15 cytochr	KJ654018	79.06	88.43	3.55098e-37	Peronosporales	Peronosporaceae	Peronosclerospora sp. YJC-2014
Pleurosigma strigosum strain X cytochrome oxidase	KJ671738	76.85	100	3.55098e-37	Naviculales	Pleurosigmataceae	Pleurosigma strigosum
Frustulia vulgaris mitochondrial partial COI gene	HF562256	78.57	90.74	3.55098e-37	Naviculales	Amphipleuraceae	Frustulia vulgaris
Sellaphora pupula clone LE D35 cytochrome oxidase	KC911838	78.87	89.81	3.55098e-37	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula clone LE J9 cytochrome oxidase s	KC911837	78.87	89.81	3.55098e-37	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora seminulum clone TCC461 cytochrome oxida	KC736653	78.57	90.74	3.55098e-37	Naviculales	Sellaphoraceae	Sellaphora seminulum
Pinnularia neglectiformis strain Pin 706 F cytochr	JN418696	78.57	90.74	3.55098e-37	Naviculales	Pinnulariaceae	Pinnularia neglectiformis
Pinnularia subcommutata var. nonfasciata strain Co	JN418686	76.85	100	3.55098e-37	Naviculales	Pinnulariaceae	Pinnularia subcommutata var. nonfasciata
Pinnularia sp. 5 CS-2011 cytochrome c oxidase subu	JN418683	76.85	100	3.55098e-37	Naviculales	Pinnulariaceae	Pinnularia sp. 5 CS-2011
Sellaphora pupula voucher RBGE_28_28 cytochrome ox	HQ317105	78.87	89.81	3.55098e-37	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula voucher E3020 clone RBG2 cytochr	EF164928	78.57	90.74	3.55098e-37	Naviculales	Sellaphoraceae	Sellaphora pupula
Pythium sp. CAL-2011a voucher CBS122647 cytochrome	HQ708815	79.26	87.04	1.23941e-36	Pythiales	Pythiaceae	Pythium sp. CAL-2011a
Melosira nummuloides voucher CCMP484 cytochrome ox	GQ844267	77.21	99.54	1.23941e-36	Melosirales	Melosiraceae	Melosira nummuloides
Amphiprora alata strain J cytochrome oxidase subun	KJ671723	78.84	87.5	4.32598e-36	Naviculales	Amphipleuraceae	Amphiprora alata
Rossia sp. CH2 mitochondrial cox1 gene for cytochr	AB618070	78.84	87.5	4.32598e-36	Naviculales	Naviculaceae	Rossia sp. CH2
Achlya aquatica voucher CBS10367 cytochrome oxidas	HQ708158	78.84	87.5	4.32598e-36	Naviclegniales	Saprolegniaceae	Achlya aquatica
Achlya americana voucher CBS10052 cytochrome oxida	HQ708157	78.84	87.5	4.32598e-36	Saprolegniiales	Saprolegniaceae	Achlya americana
Navicula sp. CCMP2562 cytochrome oxidase subunit 1	HQ317077	76.89	98.15	4.32598e-36	Naviculales	Naviculaceae	Navicula sp. BOLD:AAO6951
Graminivora graminicola cytochrome c oxidase subun	KP965742	78.53	88.43	1.50992e-35	Peronosporales	Peronosporaceae	Graminivora graminicola
Tenuicylindrus sp. LG-2015 cytochrome oxidase subu	KM820894	76.39	100	1.50992e-35		Leptocylindraceae	Tenuicylindrus sp. LG-2015
Thalassiosira rotula strain 27 cytochrome oxidase	KJ671752	76.39	100	1.50992e-35	Thalassiosirales	Thalassiosiraceae	Thalassiosira rotula
Pinnularia acrosphaeria strain (Enc2)b cytochrome	JN418701	78.06	90.74	1.50992e-35	Naviculales	Pinnulariaceae	Pinnularia acrosphaeria
Phytophthora boehmeriae voucher P6950 cytochrome o	HQ261251	78.53	88.43	1.50992e-35	Peronosporales		Phytophthora boehmeriae
Sellaphora pupula voucher RBGE_BB94 cytochrome oxi	HQ317096	78.06	90.74	1.50992e-35	Naviculales	Sellaphoraceae	Sellaphora pupula
Invertebrate environmental sample clone B05 cytoch	GU070933	76.39	100	1.50992e-35			invertebrate environmental sample
Gomphonema parvulum strain TCC734 cytochrome oxida	JQ354725	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC494 cytochrome oxida	JQ354716	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC492 cytochrome oxida	JQ354715	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC482 cytochrome oxida	JQ354714	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC428 cytochrome oxida	JQ354696	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC436 cytochrome oxida	JQ354703	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC434 cytochrome oxida	JQ354702	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Gomphonema parvulum strain TCC426 cytochrome oxida	JQ354695	77.95	90.28	5.27012e-35		Gomphonemataceae	Gomphonema parvulum
Sellaphora pupula voucher RBGE_SEL212D cytochrome	HQ317092	76.42	98.15	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora pupula
Navicula glaciei culture-collection CCMP:2743 cyto	HQ317072	76.42	98.15	5.27012e-35	Naviculales	Naviculaceae	Navicula glaciei
Sellaphora sp. KME-2009a voucher E3778 cytochrome	GQ374576	78.12	88.89	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora sp. KME-2009a
Sellaphora sp. KME-2009a voucher E4329 cytochrome	GQ374573	78.12	88.89	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora sp. KME-2009a
Sellaphora sp. KME-2009a voucher E4362 cytochrome	GQ374574	78.12	88.89	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora sp. KME-2009a
Sellaphora pupula voucher E3730 cytochrome oxidase	FJ042923	76.42	98.15	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula voucher E4215 cytochrome oxidase	FJ147204	76.42	98.15	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula voucher E4350 cytochrome oxidase	FJ151420	76.42	98.15	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula voucher E3024 clone RBG1 cytochr	EF164957	78.12	88.89	5.27012e-35	Naviculales	Sellaphoraceae	Sellaphora pupula
Pythium aff. intermedium JEB-2016 isolate C12-184	KT692881	78.31	87.5	1.83945e-34	Pythiales	Pythiaceae	Pythium aff. intermedium JEB-2016
Pythium sp. CLE-2015a cytochrome c oxidase subunit	KT247387	75.93	100	1.83945e-34	Pythiales	Pythiaceae	Pythium sp. CLE-2015a
Bremia sonchicola voucher GLM67725 cytochrome c ox	KP684656	78.01	88.43	1.83945e-34	Peronosporales	Peronosporaceae	Bremia sonchicola
Bremia aff. lagoseridis GLM68027 isolate B2104 cyt	KJ654035	78.01	88.43	1.83945e-34	Peronosporales	Peronosporaceae	Bremia aff. lagoseridis GLM68027
Benua kellermanii isolate O7 cytochrome c oxidase	KJ654012	75.93	100	1.83945e-34	Peronosporales	Peronosporaceae	Benua kellermanii
Lagenidium aff. deciduum strain LEV5864 cytochrome	KC741457	75.93	100	1.83945e-34	Lagenidiales	Lagenidiaceae	Lagenidium aff. deciduum strain LEV5864
Pseudoperonospora cannabina isolate HV2740 voucher	KJ651338	78.31	87.5	1.83945e-34	Peronosporales	Peronosporaceae	Pseudoperonospora cannabina
Asterionellopsis guyunusae voucher UR8 cytochrome	KF453984	75.93	100	1.83945e-34	Fragilariales	Fragilariaceae	Asterionellopsis guyunusae
Dimeregramma acutum voucher Van5.3 cytochrome oxid	KF768027	75.93	100	1.83945e-34	Triceratiales	Plagiogrammaceae	Dimeregramma acutum
Sellaphora pupula clone BolinA10 cytochrome oxidas	KC911836	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula clone Sel627K cytochrome oxidase	KC911835	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula clone Sel620K cytochrome oxidase	KC911834	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula clone BolinA4 cytochrome oxidase	KC911833	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula clone BolinA2 cytochrome oxidase	KC911832	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora auldreekie clone Sel775INV cytochrome o	KC911820	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora auldreekie
Sellaphora auldreekie clone Sel781INV cytochrome o	KC911819	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora auldreekie
Sellaphora auldreekie clone Sel776INV cytochrome o	KC911818	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora auldreekie
Pinnularia sp. 11 CS-2011 cytochrome c oxidase sub	JN418695	77.84	89.81	1.83945e-34	Naviculales	Pinnulariaceae	Pinnularia sp. 11 CS-2011
Phytophthora sulawesiensis voucher P6306 cytochrom	HQ261458	75.93	100	1.83945e-34	Peronosporales		Phytophthora sulawesiensis
Phytophthora boehmeriae voucher P1257 cytochrome o	HQ261253	78.01	88.43	1.83945e-34	Peronosporales		Phytophthora boehmeriae
Pythium helicandrum voucher CBS84468 cytochrome ox	HQ708593	75.93	100	1.83945e-34	Pythiales	Pythiaceae	Pythium helicandrum
Pythium helicandrum voucher CBS52774 cytochrome ox	HQ708591	75.93	100	1.83945e-34	Pythiales	Pythiaceae	Pythium helicandrum
Pythium grandisporangium voucher CBS28679 cytochro	HQ708590	75.93	100	1.83945e-34	Pythiales	Pythiaceae	Pythium grandisporangium
Halophytophthora polymorphica voucher CBS68084 cyt	HQ708363	78.01	88.43	1.83945e-34	Pythiales	Pythiaceae	Halophytophthora polymorphica
Sellaphora pupula voucher RBGE_SEL846L cytochrome	HQ317108	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula voucher RBGE_SEL642K cytochrome	HQ317107	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Sellaphora pupula voucher RBGE_O68 cytochrome oxid	HQ317102	77.55	90.74	1.83945e-34	Naviculales	Sellaphoraceae	Sellaphora pupula
Nitzschia sp. BOLD:AAX5147 cytochrome oxidase subu	HQ317079	75.93	100	1.83945e-34	Bacillariales	Bacillariaceae	Nitzschia sp. BOLD:AAX5147